ANNUAL ADMINISTRATION REPORT

OF THE

FOREST DEPARTMENT

OF THE

MADRAS PRESIDENCY

FOR THE

TWELVE MONTHS ENDING 30TH JUNE 1910.

(1909-1910

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

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1911.

OFFICE OF CONSERVATOR OF FORESTS,
NORTHERN CIRCLE,
WALTAIR, 15*th September* 1910.

R.C. No. 2445.

From

A. W. LUSHINGTON, Esq.,

CONSERVATOR OF FORESTS,

Northern Circle,

To

THE SECRETARY TO THE COMMISSIONER OF LAND REVENUE AND FORESTS,

Madras.

SIR,

I have the honour to submit herewith the Forest Administration Report of the Northern Circle for the forest year 1909–1910 with its usual appendices.

2. As desired in Board's Proceedings, Forest Mis. No. 710, dated 9th May 1910, I note below the names of the districts from which reports were received late:—

District.	Date of receipt.
Vizagapatam	17th August 1910.
Kistna	18th August 1910.
Anantapur	20th August 1910.

I have the honour to be,

Sir,

Your most obedient servant,

A. W. LUSHINGTON,

Conservator of Forests, Northern Circle.

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FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY.

NORTHERN CIRCLE, 1909-1910.

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FOREST ADMINISTRATION REPORT

OF THE NORTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

The following abstract from Form No. 65 shows the changes in forest areas during the year :—

Class.	Area on 1st July 1909.	Added during the year.	Excluded during the year.	Net increase or decrease.	Area on 30th June 1910.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Reserved forests	5,791	17	..	+ 17	5,808
Do. lands	116	20	6	+ 14	130
Leased forests	63	..	..	..	63
Total ..	5,970	37	6	+ 31	6,001

Eleven square miles were added to *Kurnool West* reserved forests by rectification of area ; 3½ square miles were made reserved lands in *Kistna* under section 26 ; and with these exceptions, and of areas under ¼ square mile respectively in *Vizagapatam*, *Bellary* and *Ganjám*, all the changes occurred in *Anantapur*.

Five hundred and forty square miles of reserved forest transferred from the Central Provinces to the *Upper Gódávari* district have not been brought into account, as it has been ruled that they must be reserved *ab initio* under the Madras Forest Act.

2. The total area under the control of the Forest Department is 6,001 square miles, which (excluding zamindaries and inams) is 23·87 per cent. of the total area.

2. Forest Settlement.

3. Ten blocks (88 square miles) remained to be constituted reserved forests at the commencement of the year ; four new blocks (11 square miles) were added ; four blocks (6 square miles) were constituted reserved forests ; leaving 10 blocks (93 square miles) at the close of the year. Of these ten, Settlement reports were submitted to Board and Government for three blocks (7 square miles) ; settlement completed, but not reported on, for two blocks (75 square miles) pending appeals, one by Government to the Privy Council for 75 square miles in *Lower Gódávari*, the other by parties to the District Court for less than one square mile in *Anantapur* ; and settlement proceeding for five blocks (11 square miles).

3. Demarcation.

4. At the close of the year 9,140 miles of outer demarcation line were completed, only 79 remaining to be done. During the year Rs. 11,653 were spent on demarcation, Rs. 5,506 on new works and Rs. 6,147 on repairs. Form No. 67 shows that Rs. 2,551 were spent on 154 miles of new external lines during the year, the balance Rs. 2,955 on other works, including internal boundary lines, for which, however, figures were not separately shown in some district reports. 2,185 miles were recleared

free of cost by forest subordinates against 2,040 miles in the previous year. The system of demarcation was the same as in previous years. The average cost of demarcation per mile in the circle was Rs. 33-15-10 against Rs. 58-11-9 in the previous year, the difference being due to getting labour at a cheaper rate. The selection and demarcation of the Chokapad forests was completed by June; but the survey cannot be undertaken till the rains are over.

4. Forest Surveys.

(a) By Survey of India Party.

5. No new work was undertaken by this party during the year; but one map (4 inches = 1 mile) was prepared at Dehra Dun.

(b) By Departmental Survey.

6. During the year Rs. 8,443 were spent on forest surveys; and maps were prepared for 122 square miles of reserved forests. In *Ganjám*, 40 maps were prepared and 107 lineal miles were surveyed; in *Upper Gódávari*, 62 lineal miles were surveyed; in *East Kurnool* two surveyors traced forest roads on the Nallamalais; in the other districts one surveyor-draftsman was employed; in *West Kurnool* marking out and mapping coupes (Yerramalais); in *Bellary* (6 months) surveying fire lines in Sandur forests; and in *Anantapur* correcting reserve boundaries.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) Preparation and Control of Regular Working-plans.

7. During the year Rs. 486 were spent on working-plans. No new working-plans were sanctioned by the Board. In *Bellary*, a working-plan was sent by the District Forest-officer for Harpanahálli Range (112 square miles), of which proofs are now being corrected. In *Upper Gódávari* those for Bhadrachallam (103 square miles) and Marrigudem (121 square miles) Ranges, submitted last year, were returned by the Board for modification, and were received back revised, after the end of the official year, in the Conservator's office where they are under scrutiny. In *Kistna* one for Bezwada Range (30 square miles) was prepared, but submitted after the close of the year. In *Lower Gódávari*, revised plans for Kandikuppa (15 square miles) and Coringa (13 square miles) were also prepared, likewise submitted after the close of the year. In *Kistna*, the revision of Gopuvanipalem plan is delayed by some discrepancy in the original survey. In *Kurnool West*, the Yerramalai working-plan appears to require some modification. The question of preparing quinquennial programmes, where working-plans cannot immediately be drawn up, is under consideration.

8. The prescriptions of the sanctioned working-plans have been generally adhered to. Important exceptions are noted below:—

In *Ganjám*, the working-plan of Agastinowgam plantation was again departed from owing to the continued ravages of fungus and borer; the sâl coupes in Kullada and Jagannathprasad reserves were worked departmentally instead of by contract as it was found to be generally more satisfactory; a coupe at Jillundi was opened instead of that at Siddapodoro; a cyclone flooding the market with fuel, no fellings on Mohiri Hills were made. In *Lower Gódávari*, no extraction of small timber from some of the Peddapur range reserves was undertaken for want of demand; the working-plan of Kandikuppa had to be departed from owing to the existence of fungus. In the Yerramalais of *West Kurnool* sowings on mounds was substituted for dibbling in of seeds which proved a failure, and, mound sowing being more expensive, only 1/30 of the area could be undertaken; and in two coupes in *Kurnool* Working Circle shortage of stock prevented any felling. In *Bellary* similarly no fellings were made in Adóni, Bellary or the Alur Hills; in the Alur Babul Working Circle two other compartments in place of those prescribed were felled to admit of special cultural operations.

(b) *Preliminary Working Plan Reports.*

9. Working plans are under preparation in *Kistna* for Ellore range (63 sq. miles); in *Bellary* for Sandúr range (103 sq. miles); and in *Anantapur* for Muchukota range (77 sq. miles), the change of officers in the last district has interrupted the preparation of this. Owing to the ill-health and changes of District Forest-officers, no progress was made in the working plans for Rajahmundry and Pólavaram ranges in *Lower Gódávari*; a preliminary report for the Owk Palmyra extension reserve prepared by the Sub-divisional officer, *West Kurnool*, was returned for correction.

(c) *Annual Plan of Operations.*

10. The sanctioned plans were generally followed, except as detailed under working plans, and in the following instances:—

In *Ganjám* 4 rest-houses and 3 wells were not constructed to leave funds for certain roads considered more urgent. In *Vizagapatam* no bamboos were cut departmentally in Golgonda range for want of demand and of proper transport roads; the permanent demarcation of Sarugudu block was not undertaken as the settlement is incomplete; no more rubber plants were planted. In *Lower Gódávari* bamboo coupes in Rajahmundry range were not worked departmentally but sold to contractors. In *Kistna* the road from Dongamarlabhavi to Duggiralpad and building at Dongamarlabhavi could not be completed before the end of the year, nor the creeper cutting in Erraguntapalli reserve. In *East Kurnool* less dead timber was extracted from want of demand, and less minor produce was collected from poor harvest. In *Bellary* only a fourth of the intended quantity of fuel from Ramandrug hills was felled owing to shortage of labour monopolized by the Railway construction works; grass cutting operations, originally contemplated, were ordered to cease; the roads in Adoni range were transferred to famine relief projects, and those in Alúr, Bellary and Sandúr ranges could not be undertaken; and some buildings were deferred to enable other more urgent works to be pushed through; 100 acres instead of 200 were planted at Moka owing to lack of labour and funds, reverting to the original scheme.

2. Communications and Buildings.

11. The following figures show the outlay on communications and buildings during the year, as compared with those of the previous year:—

	1908-1909.	1909-1910.
	RS.	RS.
Roads and bridges	22,944	25,191
Buildings	66,846	79,216
Other works	5,408	7,374

There was increase under all the heads. The increase under roads and bridges was contributed by all districts except *Direction* and *Upper Gódávari*; that under buildings by *Direction*, *Ganjám*, *Lower Gódávari*, *East Kurnool* and *Bellary* and that under "other works" by *Direction*, *Vizagapatam*, *Kurnool*, *East* and *West.*

(a) *Roads and Bridges.*

The important works of a permanent nature carried out were:—*Ganjám*—Construction of four forest roads aggregating $7\frac{3}{4}$ miles; repair of one forest road and two cart-tracks. *Lower Gódávari*—construction of a branch road to Jaggampeta high road; repair of Ramaniahpeta and Lododdi roads. *Kistna*—repair of Dongamarlabhavi road. *East Kurnool*—repair of 8 miles of Malakondapenta ghât road. *Kurnool, West*—Mr. Eber-Hardie, special officer deputed for constructing ghât roads and buildings, finished Palerdam-Gundlabrahmeswaram road, Bairluti-Rollapenta road, Rollapenta-Pecheruvu road, and Sudam-Tekulapenta foot path; Palerdam-Chelama road was nearly finished, Gundlabrahmeswaram-Adutla road was in progress.

Tramways, etc.—The Monorail in *Lower Gódávari* did not work during the year as the contractor for the fuel of Bendamurlanka plantation used other means of

conveyance. The Revenue account of the railway shows a net loss of Rs. 192 after deducting the year's charges on account of interest and depreciation.

(*b*) *Buildings.*

The important works of a permanent nature attended to during the year are noted below :—*Ganjám*—rest-house at Bontha and range office with quarters at Surada completed; rest-houses at Gogodo and Kaliyamba nearly completed; Range office with quarters at Buguda and Gazilbadi commenced. *Upper Godávari*—construction of range offices and quarters in progress; *Lower Godávari*—rest-houses at Lododdi and Rajavommangi constructed; rest-house at Puliramunigudem extended, and rest-house at Muliyalempalli repaired. *Kistna*—range and subordinate quarters partly constructed at Dongamarlabhavi. *East Kurnool*—rest-house at Cumbum and Extra Assistant Conservator's quarters at Markapur completed; Range offices with quarters at Dornal and Markapur in progress. *West Kurnool*—Deputy Ranger's quarters and shops at Nagaluti, Bairluti and Pecheruvu completed; rest-house at Nagaluti, subordinates' quarters at Rudrakod, Velgode, Pasurutla, Pangidi and Range office at Rudravaram in progress. Five buildings and two out-houses at Gundlabrahmeswaram were finished by Mr. Eber-Hardie, and those at Pecheruvu were in progress. *Bellary*—bungalows constructed at Kupgal, Banavasi and on the Copper Mountains and Deputy Rangers' quarters at Moka and Doni. *Anantapur*—rest-houses at Pamidi, Rolla and Togarikunta completed; that at Muchukota and Range office at Tadpatri in progress.

(*c*) *Miscellaneous Works.*

The chief works done were deepening the bed of a tank, digging new wells, deepening and repairing old ones, and construction of fences and walls for reserves and depots.

3. Protection of Forests.

(*a*) *General Protection.*

12. The following statement shows the number and classification of forest offences brought to light during the year :—

Class.	Injury to forests by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.
1. Cases taken into court.	19	11	1,008	846	476	407	134	106	1,637	1,370
2. Cases compounded ..	9	6	1,447	1,551	1,456	1,259	328	187	3,240	3,003
3. Cases undetected ..	65	133	274	107	161	96	39	9	539	345
Total ..	93	150	2,729	2,504	2,093	1,762	501	302	5,416	4,718

The total number of new cases was 4,718. The number of cases reported was less by 516 than the average of the three previous years, the fall occurring in *Lower Gódávari*, *Kurnool East*, *Kurnool West*, *Bellary* and *Anantapur* under "Unauthorised felling", and in all but *Upper* and *Lower Gódávari* under "Illicit grazing". The decrease is due to better supervision. 1,084 cases were pending at the beginning of the year and 738 at its end; 378 of the latter were pending with Magistrates.

13. The following statement shows the result of cases brought to trial :—

1908-1909.		1909-1910.		Percentage of failure.	
Convictions.	Acquittals.	Convictions.	Acquittals.	1908-1909.	1909-1910.
1,395	194	1,248	226	12·21	15·33

A high percentage of failure appears in *Ganjám*, *Lower Gódávari*, *Kurnool East*, but especially in *Kurnool West*, and *Anantapur* and was due to careless enquiry and insufficient investigation. This combined with the fact that the Conservator on inspection found protection in *Anantapur* and the Yerramalais of *West Kurnool* less efficient than in most other districts, seems to indicate that matters are not altogether satisfactory in those parts; but in *Anantapur*, it is stated, several cases of illicit felling of babul branches for pods were acquitted by the magistrates on the ground that the contractors should be dealt with departmentally, and they were subsequently so disposed of. Besides the 1,474 cases shown above, 67 were withdrawn under the orders of the District Forest officers.

14. The following statement compares the number of cases compounded and the compensation fees realized with the figures of the previous year :—

1908–1909.		1909–1910.	
Number of cases.	Amount realised.	Number of cases.	Amount realised.
	RS.		RS.
3,445	28,501	2,876	27,327

There was decrease in all districts but *Vizagapatam*, *Lower Godávari* and *Anantapur* which was due to the general fall in the number of offences committed; the difference in the amount collected is not much.

15. Rewards for detection of cases were granted as follows :—*Ganjám* and *Anantapur* to Abkári officers, Rs. 4 and Rs. 198–8–0 respectively; and in *Kurnool West* to Forest subordinates, Rs. 25.

(*b*) *Protection from Fire.*

16. The areas attempted and protected are given in Form 72; the system of protection continued to be the same as in previous years viz., fire tracing of boundaries, internal fire-line clearing, and the appointment of fire patrols to keep the lines clear and to be on the look out for fires; in the Northern Circars certain portions were allotted to hill men to be paid by the results. Besides the above the following was done in the districts :—In *Ganjám*, concession forms were given stating exactly what the duties of each village are and what concessions are allowed to each village; in *Vizagapatam* fire lines were widened and new areas were taken in; in *East* and *West Kurnool* the system of grubbing out stumps was continued, and cutting of guide lines and burning of grass was also undertaken in the latter district; in *Bellary* the margins of railway lines, roads and footpaths in and near some reserves were burnt; attempts are also being made to raise belts of densely growing trees and shrubs along fire lines to hinder the spread of fire. In *Ganjám* the fire season was more severe than in the previous year; in *Vizagapatam* timely showers helped in putting down fires; in *Upper Gódávari* the results were unsatisfactory, which the Range officers attributed to the severity of the season, but the District Forest-officer to carelessness on the part of the Range officers in failing to maintain fire lines properly or to supervise the work done; in *Lower Gódávari* 312 square miles against 313 in the previous year were reported to have escaped fire, but the Collector doubts the accuracy of the figures. In *East* and *West Kurnool*, *Bellary* and *Anantapur*, the season was exceptionally bad owing to the failure of the north-east monsoon, and fires commenced earlier than had ever been known.

17. Rupees 60,438 was spent during the year on fire protection operations, the area subjected to such measures was 2,079 square miles against 1,840 in the previous year; of these, 1,606 square miles were successfully protected against 1,646 in the previous year; the proportion of failures rose from 10·5 per cent. to 22·75 per cent. during the year, and the cost per square mile successfully protected from Rs. 35–3–5 to Rs. 37–10–1.

18. The following statement shows the number and origin of fires in the several districts :—

District.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas. Owing to carelessness or accident. By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		C. … By villagers, travellers, etc., passing through the forests.		C. … By railway engines.		C. … By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Ganjám	14	3,124	17	1,947	1	1	12	550	..	..	..	..
Vizágapatám	1	20	17	1,300	..	..	5	1,550	..	..	..	..
Gódávari, Upper ..	4	1,651	20	119,695	..	..	2	2,150	..	..	..	..
Do. Lower ..	..	..	9	1,100	8	645	77	2,957	..	..	..	..
Kistna	..	..	7	1,058	..	..	..	..	..	..	..	..
Kurnool East	9	14,246	7	17,602	1	26	4	9,702	1	246	..	..
Do. West	7	1,373	12	12,717	3	1	10	9,376	..	..	..	..
Bellary	2	150	4	2,404	..	..	4	1,175	..	..	..	..
Anantapur	1	..	..	..	..	..	1	300	..	..	..	..
Total ..	38	20,564	93	157,823	13	673	115	27,760	1	246	..	..
Total for 1908-1909 ..	14	2,168	19	1,726	8	356	42	3,797	6	110	..	..

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.* By intentional firing. In order to obtain new grass.		C. … By intentional firing. In order to turn out game or to reduce cover.		C. … By intentional firing. Maliciously fired.		C. … By intentional firing. Total.		C. … Causes unknown.		Total of A, B and C and causes unknown.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Ganjám	..	..	..	..	3	183	16	734	33	3,907	80	9,712
Vizágapatám	..	..	3	1,212	3	57	11	2,819	35	19,265	64	23,404
Gódávari, Upper ..	..	..	..	..	1	7,000	3	9,150	10	9,567	37	140,063
Do. Lower ..	..	..	2	600	..	..	87	4,202	4	250	100	5,552
Kistna	..	..	..	..	..	..	.	..	..	..	7	1,058
Kurnool East .. .	1	2,960	1	80	7	8,209	15	21,223	11	12,960	42	66,031
Do. West	6	3,000	17	85,662	4	57	40	98,096	70	244,396	129	356,582
Bellary	9	9,429	..	..	1	90	14	10,694	..	..	20	13,248
Anantapur	..	..	..	..	3	470	4	770	23	3,300	28	4,070
Total ..	16	15,389	23	87,554	22	16,066	190	147,688	186	293,645	507	619,720
Total for 1908-1909 ..	1	160	7	1,740	12	7,850	76	14,013	31	14,295	140	32,202

The number of fires and the area burnt were far in excess of the previous year, and are due to failure of north-east monsoon to the malignity of hill tribes in causing and apathy in putting out fires, to superstition of villagers that burning of grass was necessary for getting rain, to extraordinary severity of the hot weather, and to some extent carelessness of subordinates in fire-tracing or fire-extinguishing. As explained in Chapter V, the Chenchus of the Nallamalais misunderstood the object of the collection of Ippa flowers, and instead of helping to keep out fires they deliberately fired the forests.

(c) *Protection from Cattle.*

19. The areas open and closed to grazing in each district are shown in Form 73 and the number and kind of animals grazed free or on payment of fees are noted in Form 74. The area closed to all animals during the year was 814 square miles against 659 in the previous year, and that for a portion of the year 101 square miles against 136 of the preceding year. Goats were excluded from the reserved forests of all the districts except *Gódávari Lower*, *Kistna* and *Bellary*. The following concessions were allowed in the districts.—In *Vizagapatam* hillmen living near Dharakonda and Sanivaram reserves were allowed to graze their cattle (4,939) free, under a right admitted at the settlement of Sanivaram reserve; 200 cattle of Kondasantha were also allowed free grazing. In *Kistna* 7·67 square miles were closed in July 1909 and August 1909 to allow grass to grow to meet the demand for fodder for ploughing cattle from September 1909 to November 1909, and other cattle thereafter.

20. The following statement gives an analysis of the cattle impounded during the year with the average of the three years preceding :—

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1908–1909.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1908–1909.	1909–1910.	1908–1909.	1908–1909.	1909–1910.	1909–1910.	1908–1909.	1909–1910.	
Ganjám	679	3,448	..	1,185	..	450	1,864	3,898	2,687
Vizagapatam ..	1,581	2,555	..	667	..	68	2,248	2,623	2,496
Godávari, Upper.	27	13	..	..	..	..	27	13	292
Do. Lower.	883	1,154	49	207	..	135	1,139	1,289	638
Kistna . ..	676	1,591	515	2,269	639	1,306	3,460	3,536	3,736
Kurnool East ..	7,873	5,543	..	502	..	3,652	8,375	9,195	9,384
Do. West ..	20,118	9,308		1,633		4,249	21,751	13,557	17,137
Bellary	16,238	12,287	3,718	3,979	2,178	2,727	23,935	17,192	19,617
Anantapur ..	9,579	9,780	..	1,301	..	1,490	10,880	11,270	10,691
Total ..	57,654	45,679	4,282	11,743	2,817	14,077	73,679	62,573	66,678

The decrease in the number of animals impounded during the year from that of the previous year was due chiefly to the great fall in *Kurnool West* and *Bellary*. No explanation was given in the report of the former district; and insufficient staff was attributed to be the cause in the latter, which can be hardly correct, as the staff there has been purposely made proportionately large to secure protection.

(d) *Protection against injuries from Natural Causes.*

21. In *Ganjam* the casuarina borer (*Arbela tetraonis*) and the casuarina fungus (*Trichosporum vesiculosum*) continued to spread in the Agastinowgam plantation; and the young sâl leaves in Kukuluba and Mojjagodo ranges were attacked by a caterpillar; the attack was in patches, and not general. In *Upper Gódávari* the damage to teak leaves by *Jassids* continued, but not on large areas as in previous years; Kondatangedu borer, sent to the Forest Zoologist at Dehra Dun in January 1909, remained still to be identified. In *Lower Gódávari* the Blister fungus (*Trichosporum vesiculosum*) continued to attack trees in Kandikuppa plantation; the trees attacked were removed to prevent spreading. In *Kistna*, the burning of debris after felling and before planting, and the admixture of evergreen broad-leaved species with casuarina was continued, and no damage was caused during the year by Borer or Blister fungus in any of the areas planted in recent years; in Gopuvanipalem old coupes several trees were attacked by Blister fungus, and they were removed to prevent the spread of the disease.

4. SYLVICULTURE.*

(a) *Natural Reproduction.*

22. In *Ganjám*, in all unburnt closed areas of Goomsur, reproduction was satisfactory; in felled areas sâl and other species, especially Sahajo, coppiced vigorously. In *Vizagapatam*, reproduction from coppice continued excellent in all areas either clear-felled or coppiced with standards. In *Upper Gódávari*, reproduction was fair, except that Yepi in Bhadráchalam did not flower; in the newly added Nugur range, hitherto largely overrun by fires, natural regeneration has been thrown back. In

* *Note.*—List of trees with their scientific names are to be found in Appendix H.

Lower Gódávari, reproduction was fair to good, Satinwood growing especially well in Rajahmundry Range hill reserves; coppice reproduction was good in felled coupes; in the swamps Mangrove reproduced prolifically from seed and sucker-shoots, but scarcely at all from coppice; the forty year rotation given for Coringa was found far too long, the seven year rotation of Kistna being about correct for usual requirements viz., wood about 1½ to 3 inches diameter; Mangrove flowers early (after about 1 to 2 years) and dies young (after about twenty years). In *Kistna*, in spite of the unfavourable season, Sundra, Chiruman, Soap-nut, Yepi and Somi came up well; coppice reproduction of Nallaregu and Neem in felled areas was vigorous; Mangrove was abundant in the swamp-forests; systematic thinnings in bamboo coupes considerably improved reproduction. In *East Kurnool*, reproduction, very promising at first, was suppressed by total failure of the north-east monsoon. In *West Kurnool*, on the Yerramalais, reproduction in protected fuel coupes was satisfactory, but in unprotected parts not so, owing to damage by cattle and scanty rain; coppice shoots were fair in parts; on the Nallamalais, reproduction from seed was fair at first, but the failure of the north-east monsoon and the occurrence of big fires caused considerable damage; bamboo regeneration in the hill portions of Nandyal Range was very extensive. In *Bellary*, Sandal and Satinwood in parts of Sandur Range protected from fire for three or four years reproduced themselves excellently, whilst much young growth of Anduga, Chiruman and Nallamaddi was also found. In the fenced hill reserves of Adóni and Alur Ranges the ground is fast becoming covered by thick shrubby growth, especially Korivi, Sabbali, Ulinda, Kalivi, Karehuli, Gotti and Rela; in parts of the rocky Adóni reserves the boulders are entirely covered by Korivi and Gotti; in unfenced reserves open to cattle, there is little or no reproduction except in patches protected by thorny bushes; experiments were instituted to compare coppice growth from low and high stools of Babul, but results cannot yet be given. Much success in producing sucker shoots attended the wounding of the roots of Rela. In *Anantapur*, natural reproduction was conspicuous in the closed areas of Kottakota, Gutur and Mallappakonda reserves of Penukonda Range despite the scanty rainfall; in all the other ranges there was a complete failure for want of rain.

(*b*) *Artificial Reproduction.*

23. Form 75 shows the areas under plantations and topes or subjected to cultural operations.

Regular plantations.—Ganájm, Agastinowgam casuarina plantation suffered much from cyclone. A nursery for planting 64 acres with mixed species was formed; blanks amongst logwood and mahogany were replanted; cashew-nut plants in Chatrapur reserve died from drought. *Lower Gódávari*, 38 acres in Kandikuppa and 18 acres in Bendamurlanka casuarina plantations were planted. *Kistna*, three plantations of 51 acres of mixed species (casuarina, sissoo, etc.) were planted. The seedlings are thriving well. *Kurnool East*, three out of the five teak and mixed plantations were abandoned as hopeless, but another was started; the plants, in the three maintained, fairly established themselves. *Kurnool West*, seven out of the eight teak and mixed plantations were extended, but owing to insufficient rainfall the plants did not establish themselves well, the older plants are doing well; a masonry dam and channel were constructed at Sudem by Mr. Eber-Hardie, minimising the water difficulty there; the Forest Member and the Collector inspected the plantations and the former expressed satisfaction on the work done. *Bellary*, the mixed casuarina, sissoo, etc, plantation at Moka was extended by 100 acres, and a nursery was formed. *General*:—Two important points impressed themselves on Conservator during his tours of inspection of the casuarina plantations; the first in connection with thinnings, the second in connection with watering. Under normal circumstances, casuarina planted 6′ apart interlace their branches after three years, planted 9′ apart after about four years; if not then thinned out the plantation becomes stifled, and there is a tendency to diseases of all kinds, fungus, borer, and the like; and, as the plants develop very rapidly, they require heavy thinning, preferably alternate trees in both directions at right angles. Planted 12′ apart they do not require such heavy thinning nor so soon, but the plants do not cover the ground sufficiently rapidly, consequently growth is not nearly so fast, and a great deal of increment is lost. Recent thinnings after three years in Kistna on the above principles gave 13 tons per acre which is hard to beat. As regards watering, the Gódávari working plans lays down hard-and-fast rules watering for three years, and plants on dunes get equal watering with

plants on low ground; those on dunes require much more water and for a much longer period than those on low ground where they are often established in one year; the ranger should go round twice a year, before the rains and after the rains, and estimate how many plants require how much water for the next period (more or less of six months) and see that it is properly distributed; hitherto many plants in the low ground have died from overwatering (probably causing fungus), and many in the high ground from underwatering. The height of the plant usually is equal to its depth below ground, and if that depth is within a foot of normal water level it can be said to have established itself.

Taungya plantations.—*Upper Gódávari*—No new area was treated under this method as the working plan was held in abeyance; blanks however were refilled. *Bellary.*—The black-cotton soils being overwhelmed with coarse "nuth" grass, cowles have been granted to certain ryots to cultivate free of charge on condition of sowing the seeds with their crops for the period of five years before systematic departmental cultural operations are made; the results so far are satisfactory, babul especially succeeding. Seven hundred and sixty five acres in Halaharivi reserve are thus being cultivated.

Cultural operations.—*Ganjám*—Bunds across streamlets were raised and seeds of soil-binding species were sown on the silted-up area. *Vizagapatam*—Blanks in Narasapatam fuel-working circle were refilled; palmyra sown on Vemagiri reserve boundary were almost entirely destroyed by pigs. *Upper Gódávari*—Nurseries were opened in five localities for transplanting basketted seedlings. *Lower Gódávari*—Certain felled coupes were resown with suitable seeds and the results were reported fair. *Kistna*—Sowings in felled coupes proved unsuccessful for want of rain, and in one case owing to submersion from the surplus water of an adjacent canal; one or two experiments made were not very successful. *West Kurnool*—Sowing in ploughed earth and dibbling in seed having proved useless on the Yerramalais, mound sowing was resorted to; the results were fair, but some damage was done by cattle; on the Nallamalais ploughing and sowing was continued with fair results. *Bellary*—On some hills sandal and other seeds were sown and Ficus cuttings planted; sandal alone thrived. On the plains mound sowing in red soils and furrow sowings on black ones were made with fair results, but in the very dry weather which followed almost all seedlings died down largely recovering again in the rains. *Anantapur*—Mound sowings were started in five working circles, germinated fairly successfully but died down considerably in the hot weather; Ficus cuttings on rocky places were unsuccessful.

(*c*) *Operations for Improvement of the Growing Stock.*

24. Improvement felling, thinning, coppicing, clear felling, cleaning and weeding, and removing dead wood for the improvement of growing stock are detailed under Exploitations.

Creeper cutting.—In *Ganjám*, this was done by subordinates, Khonds and fire patrols; in *Lower Gódávari*, by subordinates; in *Kistna*, systematically in the coupes prior to felling.

Fencing.—The fencing of coupes and compartments is undertaken in *Kistna*, *Bellary* and *Anantapur*, in the first two localities with most beneficial results; in *Kurnool West*, fencing is fixed up round areas under regeneration.

Bunding streams and gullies.—This is done in *Ganjám*, *Bellary*, *Anantapur* and *Upper Gódávari*; and was attempted in *East Kurnool* but not very successfully. In some parts of the first three named districts, the operation has been attended with a considerable measure of success, and a large amount of silt and moisture deposited behind the bunds, upon which silt and bunds young plants are already making their appearance.

(*d*) *Experiments.*

(i) On Species.

25. *Sandalwood.*—In the Conservator's compound at Waltair in *Vizagapatam*, there was great mortality amongst the sandal solely owing to the drought killing off the young hosts, but 1,036 still remain and are in a most flourishing condition,

two and half year old plants being 7 feet high; in *Lower Gódávari*, seed was put down in Rajahmundry reserve but said not to have germinated; whilst in *Kistna* seed put down in Kondapalli reserve germinated and is reported to be coming on very well. In *Kurnool West*, 1,500 basketted plants were put out over 15 acres at Pecheruvu and seed was dibbled in under bushes in fenced areas, the latter doing best. In *Bellary*, seed was dibbled in on some hill sides and ridges, and is thriving vigorously.

Mahogany.—7 lb. of mahogany seed were received in August by the Conservator, of which $\frac{3}{4}$ lb was given to the Local Fund Engineer, 6 lb. sent to Kurnool West and $\frac{1}{4}$ lb. sown in the Conservator's compound at Waltair in *Vizagapatam*, which latter are doing well, as are the old trees; in *Ganjám*, only six remained out of the twenty-eight reported last year; and are not doing well, whilst the five old trees in the office compound were destroyed by the cyclone of October; in *Upper Gódávari*, three of the thirteen, reported to be living last year, died; in *West Kurnool*, the old trees at Nagaluti and Pecheruvu are doing well, and 1,150 put out in Rudrakod, Pangidi and Sudem plantations are flourishing.

Red sanders.—Two bags of seed were received by the Conservator, Waltair, in *Vizagapatam* from Cuddapah in March 1909; about 200 seedlings put out on the terraces are doing well, one being about 8 feet high; more seed was put down this year; in *Ganjám*, they were badly damaged by the cyclone, and did not seed during the year, but some coppiced; of the five in the *Upper Gódávari*, one died, the other four thriving; in *West Kurnool*, seed was indented for from Cuddapah and seedlings raised in baskets.

Padauk.—$\frac{1}{2}$ lb. seed was sown in the Conservator's compound, Waltair, *Vizagapatam*, in January, only five plants came up and are doing well; in *Kistna* $\frac{1}{4}$ lb. was sown but none germinated.

Yegi.—Sown, in *Ganjám*, on $\frac{1}{4}$ acre are reported to be not doing well.

Logwood.—At Waltair, *Vizagapatam*, about 500 young plants (seed from local old trees) were put out during the year, 200 put out last year are flourishing, as are the old plants; in *Ganjám*, they are one of the mixed species used in the Agastinowgam casuarina plantation to break the purity of the casuarina; in *Lower Gódávari*, those planted in 1901 are 14 feet high, but not healthy, of the 1903—planting eight are living and two dying.

Sissoo.—At Waltair, *Vizagapatam*, are growing very healthily and form one of the very best sandal hosts; those put out in 1907–1908 in *Lower Gódávari*, all died.

Divi Divi.—Those at Waltair, *Vizagapatam*, have come on very well; in the *Upper Gódávari* those at Edugurallapalli are flourishing, but those at Bhadráchalam died.

Camphor.—Under orders of the Board the watering of the camphor was stopped; on account of the drought it was an unfortunate season to do so, for out of 1,400 about 1,250 died and only 150 remained.

Rubber—(1) *Ceara.*—All those in Napier's park, *Ganjám*, were broken by the cyclone, but the pollards are sending out shoots. (2) *Assam.*—The old plants at Waltair, *Vizagapatam*, are healthy but making only slow progress, another 100 were put out during the year, and another 100 are ready in seed pans. (3) *Pará* and (4) *Cartagena*—in the Golgonda hills, *Vizagapatam*, were not reported upon.

Teak.—At Chatrapur, *Ganjám*, did not seed during the year owing to the cyclone.

Catalpa.—In Waltair, *Vizagapatam*, only five remain of which only three are healthy; in *Bellary*, of the 400 put out at Moka only 184 are still living; in *Ganjám* 3 of the 13 planted out last year died, and the remainder are doing well.

Cocoanut.—In *Ganjám* the Malabar plants were somewhat damaged by the cyclone; the plants in *Kistna* in the Weld, Kanukallu and Gopuvanipalem reserves are doing well; these are the Coromandel class.

Edible date.—In *Upper Gódávari*, those at Murmur are doing well and produced 6 suckers of which 4 were transplanted; those at Boddugudem were not healthy; 25 seedlings were raised in Rekapalli Range; in *Lower Gódávari*, out of 60 planted in 1902, 11 are living but not growing, and of these three are not looking healthy.

Bamboos.—Only two of the 25 put down in Ungutur reserve *Kistna* are living, but are doing very well.

Yepi and Satinwood.—In *Anantapur* were measured in their sample plots, but no appreciable difference was found in their girth.

(ii) GRASS EXPERIMENTAL PLOTS FOR TESTING THE QUALITY OF GRASS RESULTANT AFTER BURNING, GRAZING AND CUTTING.

Plots were selected last year for this purpose in all districts; but those selected in *East Kurnool* and *Anantapur* were found unsuitable and abandoned, and fresh ones selected during the year. The results of experiments in other districts vary and do not lead to definite conclusions. In some it is believed that burning improves the grass, in others the opposite; in others again there would appear to be no difference whatever in the 6 sub-plots. It is evident that,—especially considering the type of locality selected in some districts,— it requires several years yet before any definite conclusion can be arrived at.

(iii) OTHER POINTS.

(*a*) *Reclamation at Waltair.*—The area (70 acres) round the Conservator's bungalow at Waltair, *Vizagapatam*, which was terraced, has been converted from a friable waste, washed away yearly in deep gullies and ravines, into a fertile stable piece of land; about 11 acres are planted yearly; at first, owing to the friability of the soil, to the boisterous winds and to the succession of droughts (50 inches of rain short in four years), this was a matter of extreme difficulty, but now as all water that lodges on it sinks into the soil instead of passing off, carrying silt with it, the trees are beginning to grow up, and hereon the experiments at Waltair referred to under "species" are undertaken.

(*b*) *Saline soils.*—The experiments conducted in *Lower Gódávari* and *Kistna* for promoting babul growth on the saline soils have not been successful, but inspection showed precisely the defects. In *Lower Gódávari* the area was blank; it was evident that the water ran off almost at once; in *Kistna* the area was on a slope, the upper part blank, the lower part and hollows filled with babul seedlings some of which, only one and two years old, were 5′ or 6′ high. It is evident then that if the water can be retained for some time, until the roots reach moisture level, babul will succeed. Nor is fresh water necessary below, for babul was found flourishing with its roots in perfectly salt water creeks. An experiment is to be made to form a nursery on a raised platform, so that the roots of the seedlings can develop, and be extracted long to plant out, enabling the roots of such transplants to reach moisture level as soon as possible. There are thousands of acres of this bare salt soil, which it is hoped can be reclothed in this fashion; for there is a vast demand for, and but small supply of, fuel, etc., in the vicinity.

5. EXPLOITATION.

(*a*) SYSTEM OF MANAGEMENT.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration fellings.*

26. *Casuarina.*—In *Lower Gódávari*, one compartment in Bendamurlanka and one coupe in Kandikuppa plantations and in *Kistna* two coupes in Gopuvanipalem, one in Narsapur (according to the working plans) and 2 acres of Kanukollu reserve (not covered by such plans) were clear felled. *Babul.*—In *Bellary* two compartments in Babul working circles required for plantation purposes, and in *Anantapur* two coupes and certain tank-beds, were so felled.

(2) *Selection Fellings.*

27. In *Ganjám*, dead sâl standing in three compartments in Gullery and Baiballi reserves were sold to contractors and four compartments in Gogodo reserve worked departmentally under this system; fallen dead trees in five beats were removed departmentally; the indent system in force for obtaining I and II class timber was not much availed of owing to large quantities of zamindari timber at cheaper rates

being available in the markets. In *Kistna*, soft wood in 2 compartments of Kondapalli reserve was sold to a contractor. In *East Kurnool*, dead fuel and timber were extracted from old coupes and fire lines in the Railway Working Circle, Giddalore, Cumbum, Gundlabrahmeswaram and Dornal Ranges. In *West Kurnool*, dead timber was extracted from certain reserves for supply to depots and other departmental purposes. In Owk extension palmyras were selected and extracted.

(3) *Regular Thinnings.*

28. In *Lower Godávari*, two bamboo coupes in Rajahmundary Range and three in Polavaram Range were sold standing to contractors. In *Kistna*, casuarina trees in alternate lines in coupe 1 of Gopuvanipalem reserve were felled and sold *in situ*. Bamboos in four compartments of Kondapalli reserve and one compartment of Kondur reserve were leased out, and one compartment of Kondapalli was worked departmentally. In *West Kurnool*, on the Nallamalais, timber and bamboos in some reserves of Atmakur, Velgode, Nandyal and Sirvel Ranges were thinned on the principle of improvement fellings.

(4) *Improvement and Coppice Fellings.*

29. In *Lower Gódávari*, 121 acres in Coringa reserve and nine coupes in the Rajahmundry Range were coppiced with standards. In *Kistna*, one compartment and one coupe in Bandar, five coupes in Bezwada, six in Ellore Ranges were treated under coppice with standards In *West Kurnool*, fuel coupes in the Nallamalais, and on the Yerramalais in ten reserves, were worked by coppice with standards. In *Bellary*, one coupe in Sandúr, one in Hospet, one in Rayadrug, one in the unreserves of Harpanahalli and one in Kúdligi were felled under coppice with standards, in the last of which Yepi poles were extracted for testing their demand.

(5) *Unregulated Fellings.*

30. In *Upper Godávari*, the right of collecting 770,000 bamboos from reserves and unreserves was given on contract; similarly the right of extracting timber from unreserves, which were roughly divided into compartments and coupes, was leased out. In *Lower Godavari*, unregulated fellings continued in Rumpa and the unreserves. In *East Kurnool*, permits were given for platter leaves; in *West Kurnool*, for palmyras and minor produce; and in *Bellary* and *Anantapur* for unreserves only, and in the latter to villages not within easy reach of depots. Except for domestic and agricultural requirements and in the above arrangements no permits were granted for forest produce.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

31. In all districts seigniorage was collected on some gravel, earth and other minerals; the usufruct of mango, tamarind and other fruit trees was sold in auction; the collection of rela, tangedu, etc., barks, honey, wax, myrabolams, hides, horns, etc., were leased out; the chief deviations are noted below:—In *Vizagapatam*, hillmen were allowed to collect and sell to merchants and seigniorage was recovered from the purchasers. In *Kistna*, quarries were leased out to Local Funds and Municipal Departments and Railway contractors. In *Kurnool*, *East* and *West*, minor produce, other than tangedu bark and amaroy, was collected through Chenchus and sold in auction. In *Bellary*, minor produce was collected departmentally in Sandúr Range.

(2) *Extraction of Fodder.*

32. In *Vizagapatam*, grass from Chinnamangalapuram tope was collected departmentally for sale. In *Lower Góddvari*, pasture lands in Cocanada taluk were leased out by the Revenue Department and the sale-proceeds credited to "Forests." In *Kistna*, collection of fodder grass from closed areas was leased out. In *East Kurnool*, it was collected departmentally and used for Government bulls, and otherwise disposed of. In *Kurnool West*, removal without restriction was permitted on free head load tickets. In *Bellary*, free removal was permitted in special localities where the demand was great; and in Sandúr and Harpanahalli Ranges on condition of there being no fires in the reserves; the Military Department removed grass from reserves on payment of a royalty of Rs. 2 per ton. In

Anantapur, at first it was intended to allow free removals throughout the year; but, as the Collector found that regeneration was damaged and seedlings cut, he ordered that free removal should only be allowed when there was a shortage of grass outside the closed areas; and in October and November a charge of 3 pies per headload was made. The information called for in Board's Proceedings, Forest No. 157, dated 5th July 1910, has not been furnished by Collectors probably because, as the order was only received after the close of the Forest year, the information was not ready.

(3) *Hay-making and Silos.*

33. In *Kistna*, 328 headloads of grass was converted into hay and sold for Rs. 16. A prickly pear ensilage pit was formed but the material went bad. In *Kurnool East*, hay was collected and used for Government bulls; and in *Bellary*, 407 tons were collected and sent to Bellary and Tornagal depôts. In *Anantapur*, an overground leaf-rick on the Lonsdale method was tried but the results were unsatisfactory; next prickly pear was buried in two pits, but the ensilage was not ready for the cattle at the end of the year.

(4) *Grazing.*

34. The subjoined statement compares the revenue from grazing during the year with that of the previous year :—

	RS.
1908–1909	2,03,343
1909–1910	2,08,177
Difference ...	+ 5,166

The difference is comparatively small.

(*b*) AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

35. Forms 76 and 77 show separately the different classes of produce collected, and Form 78 the stock disposed of and the balance remaining. The exploitation by departmental agency was necessary for reasons given last year. The total quantity of timber and fuel, the number of bamboos, and the value of minor produce extracted departmentally were 66·70, 35·42 and 70·44 *per cent.* of their respective total outturn through all agencies and the total value of the disposals of the year was Rs. 3,51,523 against Rs. 3,10,737 in the previous year.

Transport was conducted in the same way as the last, and previous, years.

Timber.—The quantity of timber exploited was 281,632 cubic feet against 201,927 cubic feet in the previous year, the increase occurring in all districts but *East Kurnool* where sound dead timber was scanty in the reserves; the increase in other districts was due to increased fellings proportionate to the demand.

Fuel.—The quantity of fuel removed was 4,229,585 cubic feet against 3,535,993 in the previous year; the increase was in all districts but *Vizagapatam*, where the fall was due to stoppage of felling in two Working Circles. The increase in *Ganjám*, was due to opening two new coupes and to improvement in existing depôts; in *Lower Godávari*, to removal of diseased trees from Kandikuppa plantation; in *Kistna*, to larger demand during Pushkaram festival, in *Kurnool West*, to better stock in depots; and in *Bellary*, to renewal of felling in Sandur leased forests.

Bamboos.—The number of bamboos extracted was 5,822,686 against 5,756,553 in the previous year. The increase due, to larger demand in *East Kurnool*, *West Kurnool*, *Bellary* and *Anantapur*, is nearly counterbalanced by the decrease in the remaining five districts. The decrease in *Lower Gódávari*, was due to selling coupes standing to contractors instead of felling departmentally; and in *Kistna*, to restricting extraction to crooked and dead culms.

Minor produce.—The produce collected was 399,383 maunds. Last year 149,681 maunds were incorrectly given as some districts made errors in conversion.

Disposal of the Forest Produce at the edge of the Forests.

36. In all districts in the Circle steps are being taken to introduce the system of disposal of produce at coupe edge; *Kurnool West* is the most advanced in this direction, but in *Ganjám*, *Vizagapatam*, *Lower Gódávari*, *Kistna* and *Bellary*, a further

move in this direction has been made during the year. Little detailed information on this point, and none of the action taken in transferring fuel depôts to private agencies has been given in the district reports (except what is detailed in Chapter V); but it is known that the last question is likewise receiving consideration.

(ii) *By Purchasers.*

37. The prepayment system was in force in *Lower Godávari* in the unreserves and Rumpa; and in *Bellary* throughout the district, permits in the reserves being restricted to grass and, in a few cases, to stone. In *Ganjám*, certain reserves were closed against permits for removal of major produce; for the rest, the indent system was adopted. In *Vizagapatam*, purchasers mostly collected departmentally-felled produce in the coupes, or where coupes were remote from places of consumption. In *Upper Gódávari*, small timber from unreserves and bamboos from reserves were removed on contract. In *Kistna*, two coupes of Kondapalli reserve were leased out for the removal of soft wood; and four compartments of Kondapalli and one of Kondur reserve for extraction of bamboos; removals from unreserves were on lease or permit. In *East Kurnool*, permits for the removal of minor produce alone were issued. In *Anantapur*, permits were issued for removals of palmyras, unclassified green timber, fuel, stones, earth, etc., in unreserved lands.

(iii) *Rights and Privileges.*

38. The following abstract statement shows the estimated quantity and value of produce removed under this head :—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	Value.
	RS.		RS.		RS.	RS.	RS.	RS.
787	58	4,506	2,895	12,293	62	23,570	904	27,489

The value of produce removed under rights and privileges is estimated at Rs. 27,489 against Rs. 46,105.

(iv) *Free Grants.*

39. The following abstract shows the quantity and value of produce removed by free grantees :—

Timber.		Fuel.		Bamboos.		Minor produce.	Grazing.	Total.
Cubic feet.	Value.	Cubic feet.	Value.	Number.	Value.	Value.	Value.	Value.
	RS.		RS.		RS.	RS.	RS.	RS.
77,597	6,827	..	..	93,367	1,290	263	86	8,466

The estimated total value of free grants was 8,466 against Rs. 17,311 in the previous year. In all districts the grants were chiefly made to indigent persons for houses and huts destroyed by fire. The decrease was chiefly due to fewer applications in the Upper Godávari.

(c) OUTTURN AND SOURCES OF FOREST PRODUCE.

40. The following abstract shows the total outturn of timber and other produce collected during the year under report and the previous year from reserved forests and from reserved and unreserved lands :—

Agency of exploitation.	Timber in cubic feet.		Fuel in cubic feet.		Bamboos in number.		Minor produce (including grass and grazing); gross value in rupees.	
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.
1	2	3	4	5	6	7	8	9
By Government Agency.	201,927	281,632	3,535,993	4,229,585	5,756,553	5,822,686	4,585	13,537
By purchasers (including confiscation)	808,579	758,609	1,778,720	1,260,824	7,710,762	10,508,242	4,80,382	5,28,564
By right holders ..	787	787	154,506	154,506	12,293	12,293	39,759	24,474
By free grantees	104,409	77,597	..	..	119,095	93,367	183	349
Total ..	1,115,702	1,118,625	5,469,219	5,644,915	13,598,703	16,436,588	5,24,909	5,66,924

The variations have already been explained. The rates of grazing fees levied in the several districts are shown in Form No. 74. The number of animals licensed to grazing on permits was 1,173,333 against 1,168,935 in the previous year.

CHAPTER III.—FINANCIAL RESULTS.

41. The financial results of the Circle compared with those of the previous year and with the average of the five years preceding show a net decrease of Rs. 57,499 and Rs. 2,42,692, respectively.

The comparison of the net results of 1909–1910 with the average of the preceding five years is not accurate as the figures for 1903–1904 include those for *Guntúr* also.

——	Years.					Average per year.	1908–1909.	1909–1910.
	1903–1904.	1904–1905.	1905–1906.	1906–1907.	1907–1908.			
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Revenue	8,94,216	8,66,523	9,15,393	9,62,381	11,42,232	9,56,149	10,48,788	11,23,985
Expenditure A—"Conservancy and Works."	2,91,822	3,59,025	4,41,695	5,55,749	6,16,043	4,52,867	6,43,307	7,38,291
Expenditute B—"Establishments" ..	2,80,763	2,73,518	2,94,453	3,33,840	3,79,201	3,12,355	3,99,747	4,37,459
Total, A and B ..	5,72,585	6,32,543	7,36,148	8,89,589	9,95,244	7,65,222	10,43,054	11,75,750
Net results ..	+ 3,21,631	+ 2,33,980	+ 1,79,245	+ 72,792	+ 1,46,988	+ 1,90,927	+ 5,734	— * 51,765

* Excludes Rs. 13,861 being the net revenue over expenditure in *Guntúr* from sales of fuel and bamboos of Kurnool East.

The gross receipts and total expenditure were Rs. 75,197 and Rs. 1,32,696 more than those of the previous year respectively.

The net results show a deficit of Rs. 51,765. This deficit is not a fact to be regretted; in bygone years surpluses were obtained at the cost of the capital; now capital is being returned, and will be repaid in the course of a decade or two with considerable interest.

The total receipts and expenditure for the year rose by 7·17 and 12·72 per cent. respectively.

About 41 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 59 per cent. to exploitation, etc. It will be observed from Form No. 79 that the value of timber and other produce at sale depôts at the close of the year amounted to Rs. 1,67,421, which was Rs. 43,072 more than it was at the close of the previous year; this too compensates to some extent for the deficit, as it is apparent from chapter II (*b*) that the heavier stock does not betoken want of sales.

The outstanding revenue at the beginning of the year was Rs. 1,37,889 and the value of sales during the year amounted to Rs. 10,37,766. Out of the total of Rs. 11,75,655, Rs. 11,23,985 were collected, leaving an outstanding balance of Rs. 51,670 at the close of the year. The reason for the large outstanding is due almost entirely to the sale of right to collect minor produce, the sale amounts of which fall due by instalments in the current year also; for in some districts leases are always for two years.

RECEIPTS.

(i) *By Departmental Agency.*

Timber + Rs. 2,434 due to increased departmental operations in almost all the districts.

Fuel + Rs. 29,558 due to increased sales in depôts in all the districts except in *Vizagapatam* where there was stoppage of work in Peddapalli and Venkatapuram Working Circles, in *Kurnool West* to the large but temporary private supply and in *Bellary* to the scarcity of labour owing to railway construction.

Bamboos — +Rs. 2,398. The increase occurred chiefly in *Godávari Upper* due to the sale of last year's stock.

Minor produce — +Rs. 6,400 due to better crops of tamarind and other produce in *Kurnool West.*

(ii) *By Purchasers.*

Timber — +Rs. 8,165 due to large removals from Rumpa and the unreserves in *Gódávari Lower* to large demand for palmyra trees in *Kurnool West* and *Anantapur*, and to better realization on darkhast in *Bellary.*

Fuel — +Rs. 4,932. The increase occurred chiefly in *Kistna* due to larger removals from Upputeru reserve, and in *Kurnool West* to realization of greater receipts from trees on darkhast lands.

Bamboos — +Rs. 12,710 chiefly in *Godávari Lower*, where the right of removing bamboos was sold to a contractor; there were also large removals from Rumpa.

Grazing and fodder grass. — +Rs. 4,834 chiefly in *Gódávari Upper* due to the grazing revenue collected in the Nugur range.

Other produce — +Rs. 19,122. The increase occurred chiefly in *Gódávari Lower* due to large removals of minor produce from Rumpa, and in *Bellary* to the increased prices realised for Tangedu bark leases and greater receipts from tree-owner's fees.

(iii) *Miscellaneous (including confiscated drift and waif wood).*

Revenue — —Rs. 15,352. In *Gódávari Lower* the decrease under drift-wood was due to want of good competition; and in *Ganjám*, *Kurnool East* and *West* and *Bellary* to less realization of compounding fees.

EXPENDITURE.

A.—Conservancy and works.

The total expenditure exceeded that of previous year by Rs. 94,984 and was due mainly to the following causes:—(1) to the increased departmental operations in almost all the districts; (2) increased cultural operations in *Kistna*, *Kurnool East* and *West*, and *Bellary*; (3) purchase of junkers in *Ganjám*; and (4) heavy programme under roads and buildings chiefly in the Nallamalais.

B.—Establishment.

The increased cost of Rs. 37,712 was due mainly to the posting of superior officers of higher grades, to the entertainment of the full sanctioned establishment, and to the increased touring.

CHAPTER IV.—ADMINISTRATION.

42. *New district Forest office charges.*—Final orders have not yet been passed on the question of dividing *Kurnool* district into three.

New ranges.—The Nugur range was added to *Godávari Upper* during the year.

43. *Conduct of executive establishment.*—The conduct of the executive establishment is reported to be on the whole satisfactory in all the districts except *Gódávari Upper*.

Good conduct.—The work of Rangers George Venugopal, A. Bastian, N. L. Narasimham, and Thambu Nayudu is specially commended.

Bad conduct.—One Ranger was permanently reduced and the work of five was condemned. One Deputy Ranger was removed and the work of another condemned.

44. *Protective staff.*—The conduct of this branch still continues unsatisfactory on the whole.

Prosecutions.—In *Kurnool East* two depôt gumastahs were prosecuted for fraud, and in *Anantapur* one Watcher was sentenced to three months' rigorous imprisonment for extortion. In *Bellary* a Forester was sentenced under section 409, Indian Penal Code, to a fine of Rs. 500 and imprisonment till the rising of the Court; one Deputy Ranger, one Forester and one Tanadar are still evading warrants of arrest.

Removals and minor punishments.—Thirty Forest Guards were removed, 24 were suspended and 7 reduced; whilst among other minor subordinates there were 60 removals, 21 suspensions and 2 reductions.

Foresters.—On the whole they are said to have worked well; removals 5, suspensions 6 and reductions 2.

45. *Ministerial establishment.*—The conduct of the ministerial establishment was on the whole satisfactory. Two District office clerks were reduced, two Range clerks dismissed and one suspended, and three Range peons dismissed.

46. *Health of establishment and casualties.*—The health of the establishment was bad in the Northern Circars and Kurnool Nallamalais, but good elsewhere. One Ranger, one Deputy Ranger, two Foresters, 8 Forest guards, one Watcher, two Tanadars, and one Range peon died of fever and one Range peon of small-pox; one Forester was invalidated by malaria. Several subordinates had to take leave on account of ill-health.

47. *Relations between Revenue and Forest officials.*—The relations between the Revenue and the Forest officials were cordial in every district. In *Vizagapatam*, the ryots of Nathavaram demanded free fuel from unreserved lands for commercial purposes, but told that such free removal is limited to requirements for *boná fide* domestic purposes only. In *Kurnool East*, complaints about the difficulty of obtaining thorns for fencing and leaf manure, from the ryots of Cumbum and Markapur taluks, are under enquiry.

48. *Service books.*—These are maintained and verified in all the districts, except for 48 Guards in *Bellary*.

49. *Tours of the Forest Member.*—The Hon'ble Messrs. C. J. Weir and W. O. Horne visited *Anantapur* district, and the latter *Kurnool West* division.

50. *Conservator's inspections.*—The Conservator visited all the districts and inspected all the District Forest offices.

51. *Touring of District Forest officers.*—All the District Forest officers spent more than six months in camp except (owing to Mr. Rigold's illness) in *Godávari Lower*.

52. *Inspection of Range offices.*—All Range offices were inspected except two in *Gódávari Lower*, two in *Kurnool West*, and one in *Anantapur*.

53. *Audit of accounts of District Forest offices.*—All the District Forest offices except *Ganjám* and *Kistna* were inspected by auditors from the Accountant-General's office. The results were reported to be satisfactory except Bellary, which is improving.

54. *Imperial Forest College, Dehra Dun.*—Five Government students were deputed for the Ranger's course. Seven returned during the year with the Higher Standard certificates. Rangers Crothers and Chengappa, deputed for the third year's course, completed their training by 30th June 1910.

55. *Vernacular Training School for Guards.*—This school was opened in Sandur on 1st February 1910 with Rangers Messrs. Stracey and Rahimatulla Sahib as Instructors. Out of 29 deputed for training, 19 passed in the first, and eight in the second, class, one from *Bellary* was sent down, and one from *Kurnool* East died. The Instructors worked well.

56. *Work and service of superior officers.*—The following Collectors have commented on the work of their District Forest officers :—

Collector, *Ganjám.*—Mr. Bennett discharged his duties with energy and ability, and Mr. Whitehead showed commendable zeal. It is entirely to the tact and judgment shown by Messrs. Bennett and McLaughlin in Pondakhol that such a promising start has been made there. Collector, *Vizagapatam.*—Mr. Murray worked with his usual keenness. Collector, *Gódávari.*—Mr. Rigold worked satisfactorily and his work and conduct had been uniformly good. Collector, *Anantapur.*—The work of Messrs. Daly and Woutersz was satisfactory. Mr. Dawson is an officer of somewhat peculiar views though very zealous, and was not thoroughly in sympathy with the forest policy adopted in the district. The Collector of *Anantapur* also comments on the frequency of changes amongst his District Forest officers (there have been five in three-and-a-half years), and wishes that it were possible for an officer to stop for

several years before leaving, in the interests of Forest Conservancy ; certainly the continual changes—although they may be necessary—have brought about a considerable want of discipline in the Executive and Protective establishment, and the same applies to *Lower Gódávari* where changes, if anything, have been still more numerous.

The Conservator endorses these opinions. As regards the remaining District Forest Officers, the work of Messrs. Wood, Tireman and Barlow-Poole was excellent; of the first the Conservator is proud to note that the Forest Member has recorded that he "has nothing but praise" for his work amongst the Chenchus, and work generally in the Terái; he was helped by Extra Assistant Conservator Mr. Tapp who works hard, but should make his subordinates carry out protection, etc., more effectually; Mr. Tireman has brought about excellent protection in the district of *Bellary* that needs it so badly; he has been ably backed up by his Assistants Messrs. Minchin and Venkatramana Aiyar who have given him whole hearted service; and Mr. Barlow-Poole has laboured single handed most strenuously, especially during the exceptionally severe hot weather in the Nallamalais, in a charge that in its present undivided state is one of great difficulty. Messrs. Seager and Rego have both done good work in their divisions; but the latter wants to exert more control over his subordinates so that they carry out works when his back is turned.

CHAPTER V.—GENERAL.

(*a*) RULES UNDER THE FOREST ACT.

57. (i) *Timber transit rules.*—The rules worked well in *Ganjám*, *Vizagapatam*, *Gódávari Upper* and *Lower*, *Kurnool East* and *West*. There are none in *Bellary* and *Anantapur*. The draft rules for *Kistna* have not yet been approved by the Board.

(ii) *Rules under section* 26 *of the Forest Act.*—The privileges allowed by these rules were generally availed of by the people; and there were no complaints nor abuses, except in *Ganjám*, *Vizagapatam* and *Godávari Upper*. In *Ganjám*, there were several complaints that subordinates prevent ryots removing what they require for *boná fide* domestic purposes. This was to a great extent due to the ryots having already removed practically all the unreserved and unclassified trees from many of the unreserves. In *Vizagapatam* and *Godávari Upper*, the concession granted to the hill-men to clear land for Podu cultivation was abused, and steps have been taken to prevent this

58. (iii) *Rules framed for the collection and disposal of drift wood.*—These rules are defective, and they require to be legalized.

(*b*) SUPPLY OF FOREST PRODUCE TO MEET THE WANTS OF PEOPLE.

59. *Development of the coupe and depôt system.*—The permit system was abolished except for grazing and minor items in all districts; and sale depôts and coupes were opened in convenient centres for supply of timber, fuel and bamboos. The sales at depôts have, on the whole, been poor; and, consequently, several depôts were abolished. In *Ganjám*, the demand for fuel and bamboos greatly decreased after the cyclone. In *Vizagapatam*, the permit system was in force where coupes could not be worked in respect of bamboos only. In *Gódávari Upper*, the inhabitants of Bhadráchellam are allowed the privilege of free removal of timber from unreserves. Permits were also issued for produce required from reserves for local consumption. In *Gódávari Lower*, an attempt was made to sell fuel felled in the Rajahmundry Range to a contractor at a fixed rate. The fuel cut in the Bendamurlanka plantation was sold in public auction. The fuel and timber cut in the Peddapúr Range was sold to a contractor. The right of extracting bamboos from some coupes of Rajahmundry, Polavaram and Peddapúr Ranges was auctioned to contractors. In *Kistna*, the sale depôts at Bezwada and Ellore were abolished; and the sale of fuel in these towns was made over to a contractor under certain rigorous conditions. In *Kurnool East*, spokes, felloes and fuel were sold in depôts; but the ryots want green timber, and attempts will be made to meet the want in part. In *Kurnool West*, the demand for agricultural implements was greater than the supply, which defect will shortly be remedied as far as possible. Except fuel in Kurnool town and bamboos at Gazulapalli, the sales of fuel and bamboos were limited to the coupes. The Nandyal depôt was closed and given over to a contractor whose work was not satisfactory. Proposals

are before the Board to give over the Kurnool depôt to the boating contractor of the Nallamalai fuel who will purchase fuel for it in the coupes in the Nallamalais. In *Bellary*, arrangements to sell fuel in coupes were made, and consequently certain sale depôts were abolished. In *Anantapur*, the wants of the people are generally met by the concessions allowed under section 26 of the Forest Act and the issue of permits to cut unclassified timber and palmyra trees in unreserved lands of villages situated far from the existing sale depôts. Depôts at Madakasira and Kalyandrug are not working satisfactorily, and they will be abolished.

60. *Measures adopted to encourage the growth of manure leaf yielding plants.*—No operations were conducted in *Ganjám*, *Vizagapatam*, *Gódávari Upper* and *Lower* and *Kurnool East*, there being no demand for leaf manure in these districts. In *Anantapur*, no experiments were conducted, as there is sufficient supply from unreserves and patta lands. In *Kistna*, Kanuga, and in *Bellary*, Kanuga, Tangedu and Bandedu were sown in the course of cultural operations. In *Kurnool West*, seeds of Kanuga were sown along the Pálár river and in one acre of land on the bank of the Hindri river in Yerramalais; but the results were not encouraging. The concession allowed by Government in the matter of granting lands free of assessment for growing manure leaf yielding species was not taken advantage of in any of the districts. Accurate information regarding the yield and quantity required per acre was not furnished, there being no special areas under cultivation of leaf manure. It is, however, reported that in *Kistna* the yield and the quantity required per acre are about 4 and 3 cart-loads, respectively; in *Kurnool East* and *Bellary* the quantity required per acre is considered to be 20, and 5 to 12 cart-loads. In Nandyal and Velgode Ranges 5 to 8 cart-loads, and in the Yerramalai Ranges 2 cart-loads are required.

61. *Hill tribes.*—In *Ganjám*, the Khonds in Pondakhol were employed on demarcation work. When they were paid in money for their labour some difficulty was experienced in getting them to work regularly; but when they were paid in kind they worked regularly and in large numbers. *Podu*ing inside the reserve has been almost entirely put a stop to. The Khonds of the Mojjagodo, Kukuluba and Buguda Ranges consented to look after fire protection, fire patrolling and general protection of the forests from thefts, in return for which they are granted small concessions of material to rebuild their houses, ploughs, and minor produce. This system is likely to have good results in the matter of general protection of the reserves. In *Vizagapatam*, care was taken to avoid giving the hill men cause for complaint against the working of the forest laws, so long as they did not abuse the privileges given to them. In *Gódávari Upper*, the Koyas and Reddis work at fire tracing, line-clearing, collection of minor produce, and felling small timber and bamboos. New works of clearing guide and interior lines, collection of seeds and minor produce were started on account of failure of crops and they carried them out very well. The system of payment by results in fire protection has worked satisfactorily. In *Gódávari Lower*, the hill tribes were allowed to enjoy certain concessions in regard to *Podu* cultivation, free grazing and free removal of certain species of forest produce from Rumpa and the unreserves; they in return give assistance in preventing and putting out fires in the forests. In *Kurnool East*, the Chenchus were employed on plantations and in return they were fed and clothed. They are on the whole quiet. The Chenchus are still disinclined to do any but plantation work except under great pressure, and have no wish to help to put out fires. In *Kurnool West*, the Chenchus were employed on the plantation works and the collection of minor produce. The concession of the special collection of Ippa flowers and distilling arrack therefrom were continued; but this was not allowed in the East division as the forests were burnt before the flower season. The scheme must be tried for one or two years more as the Chenchus are still under the impression that it has been brought into force to frustrate their own private collections. They are now more civilised. This is particularly noticeable at Nagaluti where the Chenchus are making bricks and constructing a masonry water channel. The number of Chenchus at the several plantations is increasing. The forest member has recorded after personal inspection his cordial approval of the steps taken to civilize them, and of the measure of success already obtained.

62. *Cultivation in reserved forests.*—No cultivation was allowed in the reserved forests except in *Ganjám*, *Gódávari Lower*, *Kistna* and *Bellary* which make no mention of the subject.

63. *Mining and prospecting.*—In *Ganjám*, *Gódávari Lower*, *Kistna* and *Kurnool East*, no reference was made to the subject in the reports. In *Vizagapatam*, no licenses were granted during the year. In *Godávari Upper*, one application for prospecting the Pedakonda graphite area was received, and the matter is still under correspondence. In *Kurnool West*, licenses for prospecting diamonds were granted to Messrs. Beardsel & Co., Madras, and Mr. A. Ghose of Tarikere. In *Bellary*, a mining lease for manganese over 1,132·80 acres of land in the Tumbaraguddi reserve was granted in favour of the South India Manganese Company. The prospecting license over 288 acres in Alagilavada reserve granted to Mr. Dunn of Bangalore was renewed for one year. In *Anantapur*, no prospecting licenses were granted during the year; but portions of the areas for which prospecting licenses were granted last year, are proposed to be transferred to Nandidrug Company. The total area under prospecting is 9,769 acres. A mining lease for 1 square mile was granted to the North Anantapur Gold Fields, Limited, 500 tons of quartz were crushed yielding 256 ounces of gold.

64. *Realization of revenue from the usufruct of toddy-yielding trees on Government waste and poramboke lands.*— No mention of this subject is made in the reports of *Ganjám*, *Kistna* and *Anantapur*. In *Gódávari Upper* there was no revenue under this head; and in *Vizagapatam*, it was small. The revenue realized in *Gódávari Lower*, *Kurnool East*, *Kurnool West* and *Bellary* was respectively Rs. 5,433, Rs. 3,435, Rs. 21,936, and Rs. 24,131 against Rs. 4,858, Rs. 4,223, Rs. 22,614 and Rs. 17,648 in the previous year.

(*c*) LIVE AND DEAD STOCK.

65. *Live stock*— (*a*) *Elephants.*—The elephants in *Vizagapatam*, *Upper Gódávari* and *Kurnool West* were in good condition. The elephant in *Ganjám* is still reported to be ill. The elephant which was transferred from *South Malabar* to *Gódávari Upper* has not yet arrived.

(*b*) *Bullocks.*—In *Kurnool East* there were 22 at the beginning of the year, of which two died and another two were condemned and auctioned. In *Bellary* of 65 bullocks, two were shot, two were killed by panthers, one died and 14 were auctioned. The dispensary at Mariammanahalli for the treatment of sick bullocks was maintained The feed and keep of bullocks cost Rs 4,556 against Rs. 5,772 during the previous year.

66. *Inventory of valuable stock.*—The stock registers were maintained and verified.

67. *Rain-gauges.*—Rain-gauges were set up in all the districts and the readings were properly recorded (*vide* Appendix I). The proposal to establish gauges in the bed of the Gundlakamma river was given up in accordance with the Board's orders.

(*d*) SUITS.

68. *Suits.*—In *Gódávari Lower*, the second appeals in the High Court in connection with the Coringa Extension suit were decided against Government. Application was made to the High Court by Government for permission to prefer an appeal to the Privy Council. Orders on the application have not yet been passed. In *Anantapur*, the owner of the fields acquired for the Ramagiri reserve addition in Dharmavaram taluk refused to accept the compensation settled by the Divisional officer, Penukonda, and referred the matter to the District Judge. The case is proceeding.

CONSERVATOR'S OFFICE,
NORTHERN CIRCLE,
Waltair, 15*th September* 1910.

A. W. LUSHINGTON,
Conservator of Forests,
Northern Circle.

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FOREST ADMINISTRATION REPORT,

MADRAS PRESIDENCY.

CENTRAL CIRCLE, 1909–1910.

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FOREST ADMINISTRATION REPORT OF THE CENTRAL CIRCLE

FOR THE FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

1. The total area of the Circle fell from 8,048 square miles to 8,028 square miles. This is due chiefly to correct computation of areas. One square mile of reserved land in *Chingleput* district was finally constituted reserved forest. Small areas were disafforested in *Nellore*, *Chingleput*, *North* and *South Arcot*.

2. Under *Reserved lands* the reduction was by transfer to reserved forests. The question of further reservation of blocks in the Vaiyampatti range of the *Trichinopoly* district and of salt swamps and blocks along the coast for forming casuarina plantations in *Tanjore*, is under investigation.

2. Forest Settlement.

3. This is practically complete: a few small extensions in *North Arcot*, *Trichinopoly*, *Tanjore* and *Chingleput*, and two blocks of 6 square miles in *South Salem* were pending settlement by Revenue Divisional Officers. The submission of final notification for the Hudaidurgam block in *North Salem* division is still pending final disposal on second appeal to the High Court. The case has been remanded to the District Court for judgment on two findings.

3. Demarcation.

4. One hundred and twenty-five miles of artificial boundary line were demarcated at a cost of Rs. 955 against 89 miles in the previous year at a cost of Rs. 1,037. The average cost per mile was Rs. 7–10–3 against Rs. 11–10–5. Eleven thousand six hundred and fifty-three miles were recleared without extra cost by Forest subordinates against 10,452 miles in the previous year.

4. Forest Surveys.

5. The Survey of India Party did not work in this Circle.

Departmentally in *North Salem*, two surveyors were engaged for roads, verification of reserves and enclosures, coupes and a proposed reserved forest: in *South Salem*, one man made maps of two old reserved forests: in *Trichinopoly* one man prepared maps on the 8″ scale of about 6 square miles of reserves and padugais.

Two hundred and ninty-one square miles remained to be surveyed and final maps had still to be prepared for 256 square miles of reserved forests.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) *Preparation and Control of Regular Working Plans.*

6. *Preparation.*—Working plans for 847 square miles were sanctioned during the year, which comprise all those mentioned in last year's report as awaiting sanction of the Board, besides others for Vellore East range, *North Arcot*, Vadakuttu working circle, *South Arcot*, forests of Namakkal-Kollimalais, *South Salem*, and Musiri range, *Trichinopoly*. Guntúr Babul working plan was revised during the year and approved by the Board in its Proceedings Forest No. 92, dated 12th April 1910. The revised working-plan of the Coast casuarina plantations, *Nellore*, was finally received from the District Forest officer at the close of the year and submitted to the Board for sanction. The provisional working plans of Rapur range, *Nellore*, and Javadi Hills, *South Arcot*, sanctioned for a year's trial were still continued, the former pending revision of working plan and the latter for further trial. The grazing policy on the settlement of which the revision of the former working plan depended having been defined, the working circles are taken up one after another and revised carefully with reference to growth and grazing requirements of the surrounding villages. The working plan for the Dharmapuri range (North Salem) referred to in last year's

report, was mislaid by the Collector in January and has not yet been received. A working plan submitted for the reserves near Vallam in Tanjore taluk was returned for revision. Plans for areas in *North Cuddapah* and *North Salem* and for 16 square miles in *South Arcot*, noted in last year's report are still under preparation and 149 square miles in *South Arcot* were taken up during the year. In *North Salem*, the area concerned is the Hosur range. Work was done on this by Mr. Dawson, but his transfer put a stop to it and now it is stopped again by the transfer of Mr. Clear.

7. *Control.*—The prescriptions of the working plans were generally adhered to. Important deviations are noted below :—

In *North Cuddapah*, certain fuel series remained slightly in arrear through dearth of labour due to cholera and by reason of transport being interfered with by floods. Bamboo Working Circle coupes Nos. II and III on the Nallamalais were not worked for want of demand. In *East Cuddapah*, two coupes in one range were worked in advance to meet demand and some coupes of the year in another range were not worked for want of demand. In *Nellore*, three compartments each in Rapur and Sriharikota ranges remained one year in arrear as the yield proved greater than expected and the demand less, and all coupes in three working plans failed to sell. In the Casuarina plantations of the Coast range compartments were kept fallow for two years on account of fungus. In *South Arcot*, some progress was made in working out the arrear fuel coupes of the Tiruvannámalai working plan and two sandalwood coupes of the Javadi working plan. Only one coupe out of four small Timber Working Circles of Tiruvannámalai plan was worked for want of demand and no timber coupes of the Javadi working plan were exploited as the previous working was a failure financially. Doubtless it was still more a failure sylviculturally. In *North Salem*, the provisions of the Tiruppattúr Working Plan had not been rigidly adhered to from the beginning ; consequently there was deficit in the felling of some Working Circles, due chiefly to the fluctuating demand for fuel and charcoal, supply of 1,000 tons to the Southern Mahratta Railway however cleared some of the arrear coupes, but of ten timber coupes six were not touched owing to lack of communications. In other ranges some of the arrear coppice coupes were felled. *In South Salem*, out of 8 timber and 38 fuel coupes a small area of one coupe in the former and only 13 of the latter, 2 completely and 11 partially, were exploited. This is attributed to want of demand, to the cost of transport to places where there is demand being prohibitive, to the means of transport and to the necessary staff required for carrying out the work being inadequate. On the other hand, 49 acres of 1 arrear timber coupe and 941 acres of 13 fuel coupes were felled during the year. Special attention has been given in dealing with the plan of operations for current year (revised) and that for 1911–12, to the question of what is to be done about the non-fulfilment of the provisions of the working plans. In *Tanjore*, Nadur coupe VIII, which had been postponed for 1910–11, had to be worked.

8. *Estimate of area for which working plans have still to be prepared, etc.*—Working plans for 2,596 square miles have still to be prepared excluding 149 square miles taken in hand during the year. *Guntúr, East and South Cuddapah* contribute chiefly towards this area, though it might be said that preparation is proceeding satisfactorily in *East Cuddapah* for the last two years. Considering that no plans exist for any of the areas in *South Cuddapah* and that the areas for which plans exist in Guntúr is only 41 square miles out of the total area of 814 square miles of the district, it is highly desirable that the District Forest Officers should pay more attention towards this important matter in the current year. In the absence of a special Working Plans-officer and considering the high pressure in all districts, changes among District Forest Officers and double charges, the general progress may be considered satisfactory.

(*b*) *Preliminary Working Plans.*

9. In *North Cuddapah*, a scheme of located fellings was carried out in eleven timber and eight fuel coupes, preparatory to collecting data on which to base future plans. In *South Cuddapah*, there was difficulty as before in selling coupes for sugarcane boiling, but 14 were worked departmentally and 837 cart-loads supplied. A general note on the preparation of working plans was drawn up by Mr. Arbuthnot after he left the district and the Range officers have been ordered to collect statistics on the lines indicated therein. In *Nellore*, beyond collecting further information on the plans referred to in the previous years' reports, no progress was made in drawing up plans for want of time. In *South Salem*, a simple scheme for leasing bamboo blocks with a rotation of three years was made for the reserves on the Chitteries not under

working plans. In *Tanjore*, the preparation of the preliminary plan for Talanayar and Kodiakadu Reserved Forests has been still deferred, until the results of the coppicing of *Mimusops hexandra* are further seen. In *Guntúr*, general schemes for the working of forest areas in Vinukonda, Palnad, Guntúr and Sattenapalle ranges drawn up by the District Forest Officer are being followed.

(*c*) *Annual Plan of Operations.*

10. Besides those noted under the heading "control" the following are the important deviations under this head :—In *North Cuddapah*, certain timber and fuel coupes in Ráyachóti range were not worked completely, owing to want of effort on the part of the Range officer and demand not very brisk; the completion of a bungalow, the construction of a rest-house, the clearing of taluk boundaries, sowing and planting operations had to be postponed for various reasons, such as want of funds and staff employed on more remunerative and revenue-producing works, etc. In *East Cuddapah*, some timber coupes were not worked for want of demand; some buildings and repairs to bridlepaths were not undertaken for want of funds. In *South Cuddapah*, a coupe in Ankalammakonda reserve was opened to meet the demand of the Piler town. In *Nellore*, the construction of quarters for subordinates in four places and of a rest-house at Gonupalli was postponed for want of funds. In *Chingleput*, the arrear fuel coupes were worked and no new coupes were touched. In *North Arcot*, the construction of one road had to be postponed to provide funds for the construction of another and of a rest-house. In *South Arcot*, coupe 9 of the Annamalai fuel working circle was felled in advance, owing to urgent demand in the Tiruvannámalai sale depot. Bamboos were leased out instead of being worked departmentally, owing to satisfactory prices realised in sale. In *North Salem*, instead of two timber compartments proposed for felling in Tiruppattúr range, three others were worked, the felling in the former having been completed in the previous year. The fuel coupes proposed to be leased out had to be worked departmentally, as the contract system adopted in the previous year did not work satisfactorily. The construction of certain rest-houses and two depotkeepers' sale rooms, etc., were not undertaken in order to provide funds for some urgent road, building and other works. In *South Salem*, the construction of five rest-houses and five lines and huts for subordinates, a cart-track, a bridlepath and a well were not undertaken in order to provide funds for two important rest-houses at Kapputtu and Kanjamalai and owing to constant changes in the executive staff. But even these were not taken up during the year on account of the delay in acquiring sites for them. Government have since refused to sanction the acquisition of the site for the former, as it was considered that there was no necessity for that building. In *Trichinopoly*, the departmental felling in some of the coupes of the Vaiyampatti range could not be completed owing to scarcity of labour on account of the adjoining zamin forests being worked by private contractors and in other ranges for want of local demand for fuel. In *Guntúr*, one fuel coupe was leased out to a European contractor for cutting timber and fuel.

2. COMMUNICATIONS AND BUILDINGS.

11. The outlay on roads and bridges was Rs. 18,282 in 1908-1909 and Rupees 22,549 in 1909-1910, on buildings was Rs. 31,140 in 1908-1909 and Rs. 41,736 in 1909-1910, and on other works was Rs. 1,696 in 1908-1909 and Rs. 5,346 in 1909-1910.

There is noticeable increase under all heads: under "Roads and Bridges" mainly in *East Cuddapah* and *North Salem*; under "Buildings" in the three divisions of *Cuddapah*, in *Chingleput*, *South Arcot* and (mainly) *North Salem*; under "Other works" chiefly in *South Arcot* and *North Salem*.

Important works of a permanent nature were: (*a*) *Roads and Bridges*, a road on the Nallamalais continued in *North Cuddapah*; 2 miles 40 chains of Patrakad Ghat road in *North Arcot* making up 4 miles; completion of the Anaibiddahalla-Anchetti road, Andiappanur-Kambugudi Ghat road and road from Palacode to Kesaraguli in *North Salem*; portion of a bridlepath up the Kollimalais and metalling of a portion of Vanavasi road in *South Salem*; (*b*) *Buildings*, completion of rest-houses at Bynapalle, Gundlur and Kothapalle and commencement of one at Bullapabhavi in *North Cuddapah*; a Range office at Badvel in *East Cuddapah*; a rest-house at Penchupad and completion of out-house and stables to Kurli rest-house in *South Cuddapah*; of out-houses to Somasila and Datchur rest-houses in *Nellore*; construction of rest-houses at Avadi and Kadapperi (incomplete), extension of Kambakkam hill bungalow (incomplete) in *Chingleput*; five guards' and watchers' lines, a depot-keeper's building and a sandalwood godown (completed) and two other lines and a

stable (in course of construction) in *South Arcot;* completion of a Range office building at Tiruppattúr and subordinates' quarters at Lokur, purchase of Rev. M. Anderson's bungalow at Danishpet in *North Salem;* completion of a rest-house at Pudupatti, construction of a Range office at Papireddipatti, out-houses to Panamadal rest-house in *South Salem;* Point Calimere bungalow (nearly completed) in *Tanjore;* completion of rest-house at Venkatayapalayam in *Guntúr*; and (*c*) *Miscellaneous Works*, none.

Tramways.—In the Coast Range, *Nellore*, 9,038 tons of fuel were trammed or 19,063⅛ ton-miles were run against 11,983 tons or 19,833 ton-miles in the previous year and at Sriharikota 7,538⅜ tons or 18,439½ ton-miles against 6,109⅛ tons or 18,327⅜ ton-miles. The report does not give any *remarks* on the cost of working.

3. Protection of Forests.

(*a*) *General Protection.*

12. The forest offences registered during the year were—

Class.	Injury to forests by fire.		Unauthorized felling or appropriation of wood and minor forest produce.		Grazing without permission or in tracts in which grazing is prohibited.		Other offences.		Total cases.	
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.
1. Cases taken into Court.	5	19	1,761	1,536	847	724	73	89	2,686	2,368
2. Cases compounded ..	2	7	7,343	7,972	4,072	4,327	215	217	11,632	12,523
3. Cases undetected ..	163	413	302	176	354	103	8	11	827	703
Total ..	170	439	9,406	9,684	5,273	5,154	296	317	15,145	15,594

Information regarding cases in unreserved lands not furnished by Collectors of Nellore, North and South Salem, Tanjore and Guntúr.

The total is higher by 449 and 1,507 compared with previous year and previous three years' average respectively. The increase has occurred under all heads except under "Grazing". The rise under "Injuries to forests by fire" mainly in *East Cuddapah*, *South Arcot* and *South Salem*, and noticeably in *North Arcot*, was due to continued drought and failure of the north-east monsoon. Other causes mentioned for rise and fall are better protection and greater vigilance and want of work on account of the unfavourable season. What the real state of affairs is with regard to protection and to detection (or rather record or registration of all offences committed), it is impossible to say. Districts probably vary considerably, and certainly the number of cases registered in them does, and in some has reached a maximum and declined again. Doubtless, on the whole, protection has improved and the number of offences, or amount of offence committed, decreased, but whether the proportion registered has made good progress, has attained its limit and maintained it or retrograded, or still wavers at a low level, it is impossible to say. In *South Salem*, *North* and *East Cuddapah*, however, I think, the number of cases registered is far below what it ought to be.

13. Cases brought to trial—

	Convictions.	Acquittals.	Percentage of failures.
1908–1909	2,406	306	11·28
1909–1910	1,935	257	11·72

There was noticeable increase in percentage of acquittals in *East Cuddapah* and *North Salem.*

14. Cases compounded—

	Number of cases.	Amount recovered.
		RS.
1908–1909	10,330	1,03,898
1909–1910	11,293 *	97,881

* Excluding 49 Unreserved Land cases for which the amount is not furnished by Collector, North and South Cuddapah divisions.

Both figures contribute to a reduced average per case. This is generally attributed to the cases being more petty.

15. The punishments inflicted by the Magistrates were on the whole satisfactory. Some of the more important cases worth special mention are noted below. In *Chingleput*, in a case of assault against the Range officer Tiruvallúr while proceeding

to detect a case of illicit grazing, twenty-three men were charged and seven were found guilty and sentenced to undergo rigorous imprisonment of one year each and steps taken to bind over the others to keep the peace. Appeal to the Sessions Judge was dismissed and the sentences confirmed. In the case referred to last year of forcible rescue of cattle, the convictions were set aside, the Sessions Judge passing some severe strictures on the conduct of the forest subordinates: the Deputy Ranger has been reduced. In *North Salem*, and three accused, charged under section 414 of the Indian Penal Code and Timber Transit Rules, were found guilty and sentenced to undergo rigorous imprisonment for one year each.

16. Rewards to informers were, as usual, sparingly granted. In *North Arcot*, Rs. 5 to informers. In *South Arcot*, Rs. 20 to a Deputy Ranger in a sandalwood case; Rs. 10 to a guard and Rs. 5 in other cases. In *Chingleput*, non-departmental rewards of Rs. 25 to a forest guard and Rs. 5 to a watcher, were given by the District Magistrate for furnishing information and help to the Police in arresting certain depredators who were moving in the forests.

(b) Protection from Fire.

17. In *Cuddapah, North and South*, the special system introduced in 1905–1906 of burning a large area of the forest in strips of varying width in order to secure better protection of the remainder and with a view to providing fresh grass was continued. The results are reported to have been satisfactory. In *North Cuddapah*, portions of nine reserves were divided into blocks or compartments by means of strips, which were burnt to 200 to 300 feet wide.

The experiments ordered in G.O., No. 466, Revenue, dated 27th February 1907, communicated in Board's Proceedings, Forest No. 44, dated 9th March 1907, to burn certain areas under departmental supervision to meet the requirements of graziers were conducted in the following districts:—

In the three divisions of *North*, *East* and *South Cuddapah*, an area of 7,740 acres, 38,000 acres and 4,800 acres, respectively, was burnt with satisfactory results. The burning of grassy strips ordered in December 1909 in certain reserves of Kadiri range, *South Cuddapah*, was commenced late in the season owing to change of Range officers and consequently had to be stopped. In *Nellore*, an area of 200 acres in the Veligondas, Rapur range, was burnt and the grass in this portion is thicker and coarser than in the adjoining block. In other places though selected, no burning was done for want of grass on account of failure of rains.

Protection from fire was attempted over 3,767 square miles out of 8,028 square miles comprised in the circle at a cost of Rs. 19,497 against 3,559 square miles at a cost of Rs. 16,336 in the previous year. The proportion of failures increased from ·8 per cent. in the previous year to 6·3. The proportion of failures in specially protected areas also increased from 1·3 per cent. in the previous year to 10·7. The cost per square mile successfully protected was Rs. 5–8–5 against Rs. 4–10–1 in the previous year.

18. Statement of fires according to their origin is given in appendix I.

The total number of fires and the area burnt are respectively treble and quadruple of the number and area of the previous year, due chiefly to excessive drought and dry season. This increase occurred under all heads except under the head "carelessness or accident by workmen employed".

(c) Protection from Cattle.

19. Form No. 73 gives details of the areas open and closed to grazing and Form No. 74, the number and kind of animals grazed free or on payment in the reserved forests and lands. The areas closed to grazing for part of the year and entirely closed for the whole year were respectively ·05 per cent. or 4 square miles and 8·87 per cent. or 712 square miles against 3 and 679 square miles in the previous year. The increase of 1 square mile in the areas closed for part of the year was in *South Cuddapah*, while that in the areas closed for the whole year, 63 square miles was in *East Cuddapah*.

The percentages of forests open to grazing and browsing to the whole area of the circle are 93·41 and 4·87 per cent. respectively. Goats were entirely excluded from reserves in *South Arcot, South Salem, Trichinopoly* and *Tanjore* and in other districts small areas of certain reserves were thrown open to browsing.

20. An analysis of the cattle impounded is given in appendix J.

There was increase in most districts, with decrease in *South Arcot, North and South Salem* and *Trichinopoly*. It is attributed generally to better work and supervision and is mainly contributed to by goats, though in *South Arcot* their numbers fell off considerably.

(d) *Protection against Injuries from Natural Causes.*

21. In *North Cuddapah*, many *Anogeissus latifolia* and some *Red Sanders* in the Palakondas are said to have been attacked by a beetle and some trees died, but the beetle has not been identified. Special attention is promised to this during this year. In *Nellore*, there was little trace of fungus disease in the casuarina plantations. The usual precautionary measures were taken, but the inter-planting of *Pithecolobium dulce* and *Acacia auriculiformis* were considered unnecessary and the Conservator ordered it to be discontinued in future except in water-logged places. *Dalbergia Sissoo* planted on the padugai forests in *Trichinopoly* were attacked by the parasite *Loranthus longifolia* and were cleared by the forest subordinates, as also *casuarina*, *cashew* and *Wormia-pentagyna* trees in *Tanjore.* In *Guntúr*, about 200 casuarina plants were washed down by the erosion of the sea in the Surylanka bungalow plantation. On account of severe hot weather and the consequent sinking of sub-soil water level, about 12,000 casuarina plants died in various plantations of the Bápatla range.

4. SYLVICULTURE.

(a) *Natural Reproduction.*

22. The year was not a favourable one for natural reproduction, as owing to the entire failure of north-east monsoon rains, there was a long continued drought almost everywhere and a severe hot weather. In *North Cuddapah*, reproduction from seed of teak, *Chloroxylon Swietenia*, *Hardwickia binata* and *Pterocarpus santalinus* was good in all the protected areas and in the coupes closed to grazing in the Palakondas and Nallamalais. Reproduction of bamboos also was good in the latter hills. In all the felled coupes reproduction from coppice was good. Reproduction from seed was very poor in all the areas open to grazing. In *East Cuddapah*, seeds of *Red Sanders* and *Anogeissus latifolia* appeared to withstand fire better than other species. Coppice growth was not so vigorous and healthy as usual. In *South Cuddapah*, coppice was fair but reproduction from seed almost wholly absent except in a few favoured localities inaccessible to cattle. In the plains under thorny bushes, seedlings of *Diospyros melanoxylon* were found besides the species already well-known for this. In *Nellore*, *Eugenia jambolana* coppice grew luxuriantly; 6 feet within eight months. Reproduction from seed owing to continuous drought failed even in an area closed to grazing. In *Chingleput*, seedlings of *Melia indica*, *Anogeissus latifolia*, *Mimusops hexandra*, *Albizzia amara* and other species have come up well under the parent trees in the areas closed to grazing and in sheltered localities. In *North Arcot*, reproduction from seed in nearly all the areas closed to grazing was good and that of previous years on the slopes of the Chamala reserve splendid and the seedlings are vigorous. In *South Arcot*, reproduction by seed of *Chloroxylon Swietenia* in coupes from which the undergrowth was not cleared is very marked. Sandalwood seedlings on the Tenmalai plateau (Javadis) and in Tagarai reserved forest (Kalrayan slopes) are in good condition. In *North Salem*, natural reproduction by seed was fair wherever there has been reasonable protection from grazing. In Tiruppattúr range, reproduction from coppice shoots was fair, but it is observed that when a coupe is worked, the whole area is immediately covered with thorny acacias and in some places also prickly-pear. This is a drawback in coupes on the Javadis which are worked intensively, but this undergrowth is of advantage and acts as preventive from injuries of men and cattle. In the Aiyur reserve, regeneration of *Albizzia odoratissima* by root-suckers was noticed and those of *Pongamia glabra*, *Eugenia Jambolana* which seek moist places was fair. Teak was found scattered in many places, but its regeneration from seed was backward owing to attacks of insect pests. The regeneration of *Sandal* and *Hardwickia binata* trees was on the whole poor. In *South Salem*, reproduction by seed is by no means good except on top of some of the hill ranges, where there is more moisture and more shade than down below, where there is little chance for seedlings to grow on account of overgrazing. In *Trichinopoly*, Root-suckers from *Dalbergia Sisso* in the reserves of Udayarpalayam range are in good condition. Reproduction from seeds of all species in all reserved forests was fairly good as almost all of them contain evergreen species which keep out fires. Reproduction from seeds of babul and Inga dulcis (*Pithecolobium dulce*) was excellent. In *Tanjore*, reproduction both from seed and coppice was satisfactory except in the case of *Mimusops hexandra* in coupe VIII of Kodiakadu reserve in which only 50 stools of 1 to 3 feet in girth coppiced, while stools above 3 feet in girth failed to coppice at all. This however does not involve the conclusion that the species cannot be regularly coppiced at a proper age. Absence of seedlings is due to a *mámúl* removal of *humus* by the villagers for manuring tobacco fields. In *Guntúr*, reproduction of *Avicennia* by seed was good while that by coppice shoots was not satisfactory. In felled coupes

closed to grazing reproduction was good both by seed and coppice. In places where there is shade, reproduction from seed of *Hardwickia binata* was good. In the felled areas of the Guntúr Babul working circle reproduction by seed was poor, though coppicing was fair.

(b) Artificial Reproduction.

23. *Regular Plantations.*—In the three divisions of *Cuddapah*, there are no regular plantations. In *North Cuddapah*, 300 plants of *Zizyphus*, *Albizzia Lebbek* and *Pongamia glabra* were raised in a nursery in Ráméswaram reserve, but only 150 survived and are in healthy condition. In *East Cuddapah*, the graft mango plants planted in Kodur tope three years ago have established themselves. In *South Cuddapah*, in a tope in Kadiri range, tamarind and *Melia indica* seedlings were put out in baskets, some in pits and some on mounds. But as a comparative experiment, it was of little value, as the pits were watered for six months and the mounds left to nature, with the natural result that 66 per cent. of the former are surviving and growing vigorously, while only 9 per cent. of the latter are alive and not doing well. Considering the season the survival of even 9 per cent. of unwatered plants may be not altogether unsatisfactory. In *Nellore*, no replanting of felled compartments was carried out in the casuarina plantations during the year, as they were left fallow for two years as a cure for fungus disease, as usual; but some of the smaller compartments were planted with *Pithecolobium dulce* and casuarina. Kollurpad plantation was extended during the year by 10 acres bringing the total area planted to 120 acres. In *Chingleput*, *Melia indica*, *Tamarindus indica*, *Eugenia Jambolana*, *Albizzia Lebbek*, *Cashew*, etc., seedlings were planted in compartments 1 and 7 of the Meyyur plantation and watered. 50 per cent. withstood the bad season which was worse there than almost anywhere and the result may be considered good. In *North Arcot*, 7 acres in Palmanér reserve were planted with Red Sanders seedlings and 123 acres in the different plantations near Vellore were planted with casuarina and other seedlings with satisfactory results. In *North Salem*, 23,000 seedlings of Australian Wattle, Cyprus, Juniper and Silver Oak were planted during the year in compartments 1, 2 and 3 of Sanyasimalai plantation on the Shevaroys at about 4,000 feet and they are thriving well, also a thousand cuttings of *Erythrina indica* and lithosperma. In *South Arcot*, *Tanjore* and *Guntúr* the usual replanting of casuarina was done.

Cultural operations.—In *North Cuddapah*, the usual sowings in closed coupes were made but seedlings died from drought in January. In *East Cuddapah*, of 320 seedlings of Red Sanders reported to be thriving well last year a large percentage died out. Seedlings of manure leaf species thriving at the beginning of the year withered, so also 200 seedlings of Red Sanders put out in blanks. In *South Cuddapah*, in the open areas of felled coupes Tamarind, Red Sanders, *Melia*, Teak, *Pongamia*, *Terminalia tomentosa* and *Arjuna* were sown on mounds. Tamarind, *Pongamia* and *Melia* germinated and 350 seedlings are alive and the rest died owing to drought. In *Nellore*, the nursery at Sriharikota was continued and fresh nurseries were opened for growing timber species in Dugarazpatam and Tamminapatam plantations and in the Udayagiri Durgam Hill. In 60 acres forming blanks of compartment No. 10 of Sriharikota, natural forest on land on the coast, casuarina plants mixed with *Acacia auriculiformis* and *Catalpa speciosa* were planted; the former has attained 3 to 5½ feet and the latter 2 to 3½ feet and 1 to 2 feet respectively within a year. In various forests seeds of different species dibbled in, sown broadcast or after ploughing did not germinate for want of rain. In *Chingleput*, operations were conducted on an extensive scale as in the previous year in all the felled coupes and in poorly stocked areas. An extent of 1,206 acres was sown with 3,209 measures of several timber species and *Cassia auriculata*, (1) by ploughing poorly stocked areas in furrows, (2) by dibbling in the seeds in holes and under bushes and (3) by transplanting seedlings raised in nurseries near the coupes. The operations were very successful in both the ranges at the beginning, but on account of the failure of rains, 60 per cent. of the seedlings in Chingleput range and 40 per cent. in Tiruvallúr range, succumbed. The survivors have been struggling hard and have put forth fresh leaves in the showers of July 1910. Three thousand five hundred palm seeds (presumably palmyra) were sown in the forests. In *North Arcot* experiments made in irrigating casuarina plants in the plantations instead of watering by hand show that the former is better both economically and sylviculturally, although the plants are watered once in five days only instead of once in three days. In *South Arcot*, *Acacia Sundra*, *Albizzia amara*, *Butea frondosa*, *Chloroxylon Swietenia* and *Melia indica* seeds were sown in felled coupes and also cashew *Anacardium occidentale*, but only a very small percentage is reported to survive. Cuttings were put in blank areas. In *North Salem*, *Eucalyptus rostrata*, *E. resinifera* and brown pine were sown in the Sanyasimalai

plantations and about 500 of these seedlings are thriving well. *Lucern* seed was sown in the compounds of two bungalows and in the Sanyasimalai nursery. In *Trichinopoly*, five compartments aggregating an area of 226 acres of Padugai reserves along the Coleroon left bank in the Udaíyarpálaiyam range were taken up for reclaiming with fast growing species, viz., *Inga dulcis*, *Acacia arabica*, sissoo, teak, mahogany, casuarina, cashew, etc. Forty-two thousand four hundred and fifty-three plants were raised at a cost of Rs. 3,252. Two thousand three hundred and fifty teak seedlings were also planted in three reserves Cuttings of *Portia* (*Thespesia populnea*), *Odina Wodier*, Ichi (*Ficus retusa*) and *Banian* planted along the fences around the plantation partly failed. In the bare slopes of the Pachamalais in the Musiri range, a large quantity of seeds of *Dodonæa viscosa*, *Albizzia amara*, etc., collected by subordinates free of cost were sown. The seeds have germinated and are thriving. In *Tanjore*, 10 acres of land in Nadur, Vettangudi and Kollangarai reserves and 2 acres in Viralipatti were sown with cashew seeds at a cost of Rs. 65. There were casualties owing to the unusual drought, but the existing seedlings are reported to be thriving well. In *Guntúr*, babul and *Melia indica* seeds were dibbled in in the felled areas of the Lam reserve and the seedlings are promising.

(*c*) *Operations for improvement of growing stock.*

24. Creepers and climbers affecting the standard trees in all the felled coupes were cut and removed by subordinates in *North* and *East Cuddapah*. Improvement fellings were undertaken in timber coupes of *North Cuddapah*, by felling unsound, hollow and deformed trees. Thinnings of bamboos were carried out in the bamboo coupes. Coppice fellings in the fuel coupes and selection fellings in the timber coupes in *East Cuddapah*, tended to improve the growing stock and dead trees, were removed in about 20 square miles in the forests of Palakondas and Lankamalais. In *South Cuddapah*, proper coppicing of stools was attended to in all the coupes. In *Chingleput*, weeding, thinning and creeper cutting were done wherever necessary and felled areas were fenced to prevent the ingress of cattle and thus improve pasture. Removal of prickly-pear in Guindy Park commenced last year was continued at a cost of Rs. 168. In *South Arcot*, thinnings of bamboos in two tope reserves and of casuarina in the Akshikadu reserve of Tindivanam range and in certain casuarina plantations of Cuddalore range were carried out. In *Guntúr*, felled areas were fenced.

25. *Arboricultural development.*—In *North Cuddapah*, young and deformed teak round a bungalow were cut back. Four hundred *Melia indica* seedlings were transplanted. In *South Cuddapah*, sandalwood seeds sown in July under bushes and on mounds have not been successful owing to drought. Sandal seedlings have been raised in nurseries. In *Nellore*, in the Durgam Hill reserve nursery, Teak, *Artocarpus integrifolia*, *S. Mahogani*, etc., were planted; only the mahogany is thriving. In the Durgam Hill bungalow compound, some fruit trees were planted, but only lime is thriving. In *Chingleput*, a large number of seedlings of Tamarind and *Melia indica* were planted in all the felled coupes and in Meyyur plantation. In *South Arcot*, Red Sanders seeds were collected for sowing in prepared pits in worked coupes. In other districts, nothing special has been reported except what has been given under cultural operations.

(*d*) *Experiments.*

26. *Mahogany* (*Swietenia Mahogani*).—In *East Cuddapah*, of the 23 plants, 9 died during the year. In *South Cuddapah*, 285 plants were raised in nursery beds and basketted and transplanted under shade. They were not watered, but given top light by opening out the cover. The plants did not survive probably owing to unfavourable season. In future the seed will be sown in the baskets. There is little object in using baskets otherwise. In *Nellore*, seeds came up very well and plants are in good condition. In *North Arcot*, the plants are thriving. In *South Arcot*, the existing plants in Tiruvannámalai are thriving. Out of 56 and 174 plants in Cuddalore and Kallakurichi ranges, only 41 and 136 are surviving, the casualties being attributed to damage done by white ants, of which I am somewhat sceptical. Plants of 1906 in casuarina on the shore are doing well. From 2 lbs. of seed sown only 8 germinated. In *Trichinopoly*, the 16 trees in Alambadi padugai and 22 in Annagarampatti reserve are thriving well and there are 700 seedlings in four padugai reserves and they are also doing well.

Swietenia macrophylla.—In *East Cuddapah*, of the 50 plants, 8 died during the year. In *Chingleput*, 90 per cent. of the plants put down in open portions of the Guindy Park succumbed in the hot weather and a few were damaged by cattle. In *South Arcot*, the existing plants in Tiruvannámalai are thriving. Out of 126 plants in Kallakurichi range, only 98 are surviving, the rest having, it is said, been

destroyed by white ants. The plants in Talankoda reserve reported last year have all died owing to the unfavourable season. Four lbs. of seed sown in the nursery of the reserve have also failed. In *Tanjore*, of the 14 trees in Vettangudi nursery and compartment No. VII, two have died.

Acacia auriculiformis.—In *Nellore*, the seeds sown in five nurseries have germinated and are growing well. In *Chingleput*, plants were raised in two nurseries and basketted. In *South Arcot*, out of 660 plants that existed in the Cuddalore range, only 338 survive. One lb. of seed sown in Talankoda nursery germinated, but died.

These are all in sand on the coast.

Acacia Senegal seeds were sown in Kothachenu nursery, *Nellore*, but not a single seed germinated.

Burma rattan.—In *Nellore*, seeds of three species were sown, but, as last year, did not germinate.

Catalpa speciosa.—In *Nellore*, the plants of last year have put forth new leaves and are in fair condition.

Eucalyptus.—Blue gum (*Eucalyptus globulus*) seed was tried in coast sand but naturally it was a thorough failure. In *North Arcot*, the trees in two of the plantations are thriving. Seeds were sown in Whiteside's garden. They germinated, but were killed by excessive rain. A supply has been obtained from the Nilgiris and is now being sown. In *North Salem*, seeds of *Eucalyptus rostrata*, *E. resinifera* and *E. marginata* were sown in Sanyasimalai plantation (4,000 feet) and seedlings are reported to be thriving well.

Grasses.—Several species of Australian grasses were tried in *Nellore* and *North Salem* and three species in *Chingleput.* Only Rhodes grass germinated and came up well, though the growth is not so good in *Nellore* as that of last year owing to drought; in *Chingleput* and *North Salem*, it seeded and the seeds have been collected and kept for sowing in the next season.

Date (*Phoenix dactylifera*).—In *North Arcot*, no improvement has been noticed in the trees planted and no more have been put down. In *Tanjore*, the 126 trees are surviving.

Jacquarandus.—In *North Arcot*, the existing plants in Whiteside's garden are doing well.

Agave Ixtle.—In *North Arcot*, no casualties are reported and the existing plants are presumably all doing well.

Sissoo.—In *Nellore*, seedlings did well. In *Trichinopoly*, the plants are thriving, but as in previous year, they were attacked by the parasite *Loranthus longifolia.* In *Tanjore*, the 45 trees continue to thrive.

Divi Divi (*Cæsalpinia coriaria*).—In *North Arcot*, the yield of pods from certain trees is a little more than 8½ candies against 5 candies in the previous year.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

27. The usual fellings in casuarina plantations and babul (*Acacia arabica*) tank beds were made.

(2) *Selection Fellings.*

28. Fellings of this nature were carried out in two bamboo coupes (11,895 acres) and 11 timber coupes (3,650 acres) and in removing dead and dying palmyra trees in a plantation in *North Cuddapah;* over an extent of 12,865 acres in *East Cuddapah;* in one bamboo coupe in *South Cuddapah;* in *North Arcot*, for collection of 2,230 cubic feet of sandalwood, 2,971 cubic feet of red sanders, 3,234 cubic feet of timber fit for agricultural implements and 3,745 cubic feet of miscellaneous timber and for extraction of bamboos; in *South Arcot*, in one compartment of casuarina and in bamboo coupes; in *North Salem*, in four compartments of Tirupattúr range, for the extraction of sandalwood, and for the supply of agricultural and domestic implements to the several depots and Remount depot; in *South Salem*, in felling sandalwood trees; in *Trichinopoly*, in extracting some 100,000 cubic feet of babul fuel and 95,441 bamboos; in *Tanjore*, in felling 4,800 cubic feet of babul; in *Guntúr*, in cutting babul.

(3) *and* (4) *Improvement and Coppice Fellings.*

29. Nineteen fuel and charcoal coupes in *North Cuddapah* and 20 coupes in *East Cuddapah*, were worked as coppice with standards, while babul trees in two tank beds in *North Cuddapah* and 19 fuel coupes in *South Cuddapah* were coppiced, and two timber

coupes and one bamboo coupe in *South Cuddapah* were treated under improvement fellings. In *Nellore*, coppice with standards fellings were carried out in a number of working circles. In *Chingleput*, about 1,748 acres were felled similarly. In *North Arcot*, improvement fellings were undertaken in Balampet tope, in two compartments in Chandragiri range and in one coupe in Vellore west range; and eight coupes (1,258 acres) by contractors and 47 coupes (3,582 acres) departmentally were coppiced. In *South Arcot*, 64 coupes were worked under this system, 27 (1,191 acres) departmentally and 37 (3,103 acres) on contract. In *North* and *South Salem*, all fuel coupes were worked under the coppice with standard system, bamboo coupes in the former and timber coupes in the latter under improvement fellings; coppice with standards was adopted in 51 fuel coupes in *Trichinopoly* and four coupes in *Tanjore*, 38 and 4 of which were worked departmentally and improvement fellings in two bamboo coupes of the former district. In *Guntúr*, eight coupes were treated as coppice with standards and four coupes were coppiced.

5. *Unregulated Fellings.*

30. In *North Cuddapah*, permits were issued for the working of bamboos on the Palakondas and for charcoal in areas not under working plans and for timber in this and *South Cuddapah* divisions in localities where the very small demand made it impossible to systematise fellings. In *East Cuddapah*, permits for the removal of bamboos were continued to be issued, as no contractors were available, but the exploitation was done on a rotation of two years. In *Nellore*. the issue of chits for extraction of fuel from reserved forests was considerably less owing to increased departmental operations in different centres. In *Chingleput*, *North* and *South Arcot*, *North* and *South Salem* it was confined to unreserved areas, except for bamboo blocks in *South Salem*. In *Trichinopoly* and *Guntúr* permits for the removal of major produce had been stopped, except in a few cases in *Guntúr* where the Range officers issued permits for the removal of trees, etc., for building purposes.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

31. Minor forest produce was generally leased out to contractors or collected departmentally. In a few districts, permits were issued for certain classes of produce such as manure leaves, stones, gravel, which require little supervision as to mode of collection. The manner of working in each district is given below :—

In the three divisions of *Cuddapah*, it was leased out in all ranges and stones and road materials in *North and South Cuddapah* were removed by the Public Works and Local Fund Departments, seigniorage due from contractors being collected before removal. Seventy-five lbs. of gum were collected departmentally in *South Cuddapah* and supplied to the Superintendent of Stationery. In *Nellore*, the minor forest produce in Sriharikota and Udayagiri ranges was collected departmentally except *Cassia auriculata* bark, the right to collect which and all kinds of minor produce in other ranges was leased out to contractors. In *Chingleput*, it was leased out to contractors, but manure and palm leaves, vellal grass, stone materials except quarries leased out in auction, date ribs, etc., were removed on permits. In *North Arcot*, the right to collect produce except *Divi Divi* pods in Vellore East range was leased out in almost all forests. About 8 candies of *Divi Divi* pods were collected and disposed of during the year. Permits were issued for grazing and manure leaves. In *South Arcot*, 302 lbs. of gum were collected departmentally and supplied to the Superintendent of Stationery. Permits were issued for the removal of stones, gravel, limestone and manure leaf. All other produce was leased out. In *North and South Salem*, all minor produce was leased out as usual. In *Trichinopoly* and *Tanjore*, all produce was disposed of by leasing out to contractors except dead leaves in Kodiakadu reserve for which permits were issued departmentally. In *Guntúr*, it was leased out; but in respect of Tangedu (*Acacia auriculata*) bark, to give it three years to develop, the district was divided into three blocks and one only leased out.

(2) *Extraction of Fodder.*

32. In the three divisions of *Cuddapah*, free removal of fodder and thatching grass was permitted as usual. In *Nellore*, permits were issued for the removal of grass from reserved forest and Rs. 7 was realised therefrom. In *North Arcot*, the concession to remove grass in head loads was continued. In *North Salem*, there was no free removal of grass, but the grass farm at Sanamavu was leased out for one year for the Director of Farms, Bangalore, at Rs. 2 per acre. In *South Salem*, owing to

the scarcity of fodder, head-load permits were issued for the Harur specially protected block for the removal of grass In *Guntúr*, monthly and fortnightly permits were issued in three ranges to cut and remove grass, but the concession was not largely availed of. Full particulars regarding free removal of grass required by the Board's Proceedings, Forest No. 157, dated 5th July 1910, have not been recorded in districts, as the proceedings were issued after the close of the year, except in *East Cuddapah*, where it is reported that 10,000 tons were removed and that concessions were abused to a large extent by setting fire to forests to obtain fresh grass and by hacking saplings.

(3) *Hay-making.*

33. The operations were not conducted in some districts for want of demand or want of grass on account of drought and even in some districts where they were conducted, it was at a loss. In *North Cuddapah*, 48 tons 896 lbs. of hay were collected at a cost of Rs. 221, of which 30 tons were sold in auction for Rs. 88 and the balance remains for want of demand. Here, ryots seem to understand the advantage of making hay as they store away dried grass just as they do straw. In *East Cuddapah*, 73 tons of hay were collected and transported to Madras at a cost of Rs. 504 and 773, respectively, of which 52 tons sold to the Station Supply office, Madras Brigade, through Madras depot, realised Rs. 1,691. There was no local demand for hay. In *Chingleput*, 44 tons of hay were made from coarse gubba grass cut and stacked at Pondavakkam, but this being of an inferior kind, cannot find a sale either locally or at Madras. However a little more than 3 tons was selected and sent to Madras, where another selection was made and a portion of it was sold with difficulty for Rs. 59. In *North Arcot*, 13 tons, 1,420 lbs. were collected departmentally at a cost of Rs. 46. The Military department did not take the lease during the year in the Ammanur, etc., reserves. In *North Salem*, 3 tons, 560 lbs. of hay were collected at a cost of Rs. 12 in Salem West range, and 6 tons, 726 lbs. at a cost of Rs. 67 in Hosur range. Four tons, 1,260 lbs. of last year was sold in auction for Rs. 7 and that collected in Hosur range sold to Remount depot for Rs. 126. In *Trichinopoly*, $2\frac{1}{4}$ tons of hay were collected departmentally at a cost of Rs. 41 and 1 ton, 68 quarters sold for Rs. 33. In *Guntúr*, operations were conducted in Ballapalli and Kondavid reserves under the supervision of a Hay Superintendent and a Hay Supervisor respectively and 546 tons were cut and stored during the year against 500 and 559 tons respectively in the two previous years. The cost of collection and baling excluding establishment charges amounted to Rs. 2,293 besides Rs. 676 for the purchase of wire. Seven hundred tons were sold during the year for Rs. 7,300 and 189 tons written off the accounts as dryage and wastage.

(4) *Grazing.*

34. The revenue derived from "grazing and grass removals" was Rs. 4,24,831, a falling off of Rs. 22,758 or about 5 per cent. The decrease was due generally to drought and the consequent want of grass in reserved forests and non-advent of foreign cattle, to the mortality among cattle and goats in a few districts, to the exclusion of goats from reserves subsequent on the introduction of the new grazing scheme in *Nellore* and to extension of the kancha system which does not admit sheep, to free grazing in a large number of "conservancy" blocks in *Chingleput*, and to a larger area closed in *Guntúr*. It was heavy in *Cuddapah* and *Chingleput*, lighter in *Nellore*, *South Arcot* and *North Salem* and light in *Guntúr*. In *Salem South* and *Trichinopoly* the revenue was about the same as in the previous year. In *North Arcot* there was an appreciable increase the reason for which is not apparent.

With regard to carrying out the orders of Government that the number of cattle should be limited to the grazing capacity of reserves, the matter is being given careful attention and statistics are being collected. In dealing with the plan of operations, Collectors have been requested to instruct District Forest Officers to make preliminary reports at all events, on how limitation is to be affected, at an early date.

(*b*) AGENCY OF EXPLOITATION.

(i) *Departmental Agency.*

35. Departmental agency has again been the chief agency for working fuel and timber, although attempts are being made in all districts to find contractors. The total quantity of timber and fuel, the number of bamboos, and the value of the minor produce extracted departmentally were respectively 61, 2·3 and 2·2 per cent. of their total outturn through all agencies. The total value of the disposals of the year was Rs. 6,86,701 against Rs. 5,27,446 in the previous year.

Transport was chiefly effected by country carts, coolies, drag bullocks and buffaloes, railway and boats.

Timber+124,259 *cubic feet.*—Due chiefly to extensive departmental operations undertaken in *Guntúr* with a view to introduce more systematic working. The increase or decrease in other districts almost counterbalanced each other, and the variations do not call for remarks.

Fuel+1,532,701 *cubic feet.*—Due chiefly in *North* and *South Arcot* and *North Cuddapah* to extended departmental operations and to larger outturn realised in coupes worked.

Bamboos+164,186—Increase occurred mainly in *North Salem* and also to a certain extent in *North* and *South Cuddapah* on account of departmental working for supply to sale depots.

Minor Produce,+13,692 *maunds.*—Due to larger collections of hay in *East Cuddapah* and of soap-nuts and tamarind in *Nellore*.

(ii) *By Purchasers.*

36. For wood from reserved forests, the permit system has been replaced everywhere, almost entirely by located fellings in coupes worked for the most part departmentally, and in some cases by contractors. The total value of sales was Rs. 3,91,039 for major produce including bamboos and Rs. 7,95,761 from minor produce, which gave an increase of Rs. 483 and Rs. 57,734, respectively, over that of the previous year. The increase under minor produce occurred chiefly in *North* and *South Cuddapah* owing to better prices realised in sales and in *North Arcot* to larger sale of produce in unreserved lands and increased revenue under grazing. The sales of confiscated produce are recorded in Form No. 72-B and show an increase of Rs. 1,170.

Form of Grazing Permit.

37. Very little is said by Collectors about this. Reference is made in some cases ambiguously to the "prepayment system". Such opinions as are expressed are in favour of the original fixed value form in preference to the new quasi-fixed value form, and with these I agree.

(iii) *Rights and Privileges.*

38. These are allowed for grazing and the value of produce removed under this head is estimated at Rs. 741 against Rs. 1,193 in the previous year.

(iv) *Free Grants.*

39. The estimated value was Rs. 7,055 against Rs. 5,823 in the previous year. The grants were made chiefly to poor ryots for rebuilding houses and huts destroyed by fire. In *South Salem*, free grant of timber was made for the repair of certain Hindu temples, the legitimacy of this grant is doubtful. A large grant to the value of Rs. 2,313 in *Guntúr* was due to the formation of Adivi village in Bapatla taluk by certain emigrants from Ongole taluk.

(*c*) Outturn and Sources of Forest Produce.

40. The following abstract gives the total outturn of timber and other produce collected by different agencies during 1908–1909 and 1909–1910 from reserved forests and from reserved and unreserved lands:—

Form Nos. 76, 77, and 72 (*b*).

Agency of exploitation.	Timber in cubic feet including sandalwood.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce (including grass and grazing) gross value in Rupees.	
	1908-1909	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.
By Government Agency ..	103,965	228,224	5,204,892	6,737,593	256,944	421,130	17,590	18,519
By purchasers (including confiscations).	1,199,476	1,283,487	3,668,135	3,124,425	14,017,885	17,440,390	7,38,199	7,96,263
By right holders ..	..	..	..	..	..	..	1,193	741
By free grants	61,894	58,349	466	667	18,134	27,970	402	901
Total ..	1,365,335	1,570,060	8,873,493	9,862,685	14,292,963	17,889,490	7,57,384	8,16,424

The results show an increase under all heads. The variations have already been explained. The rates for grazing fees levied in several districts are shown in Form No. 72. The number of animals licensed to grazing on payment was 2,272,577 against 2,338,815.

CHAPTER III.—FINANCIAL RESULTS.

41. The net revenue compared with that of the previous year and with the average of the five years preceding shews an increase of Rs. 57,953 and Rs. 1,31,837, respectively :—

—	Years.					Average per year.	1908–1909.	1909–1910.
	1903–1904.	1904–1905.	1905–1906.	1906–1907.	1907–1908.			
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Revenue	* 11,20,986	11,81,907	12,50,544	15,01,092	16,84,538	13,47,813	17,21,897	19,18,620
Expenditure—								
A. Conservancy and Works.	2,82,672	3,37,204	3,79,561	4,81,918	5,43,096	4,04,890	6,09,790	7,33,010
B. Establishments ..	3,15,105	3,25,080	3,27,998	3,45,946	3,66,200	3,36,066	4,31,366	4,46,916
Total, A and B ..	5,97,777	6,62,284	7,07,559	8,27,864	9,09,296	7,40,956	10,41,156	11,79,926
Net surplus ..	+ 5,23,209	+ 5,19,623	+ 5,42,985	+ 6,73,228	+ 7,75,242	6,06,857	+ 6,80,741	+ 7,38,694

* As separate figures are not available for Guntúr for 1903–1904, the district not having been formed then, the actuals of 1904–1905 have been added for 1903–1904 for purposes of comparison.

The gross receipts were Rs. 1,96,723 more than that of the previous year, and the total expenditure was greater by Rs. 1,38,770. The receipts and expenditure are the highest on record and have increased regularly for six years, including expenditure under A and B separately. The surplus is greater by more than half a lakh than that of 1908–1909, though a third of a lakh less than in 1907–1908, the rise being steady for six years except in that year. The total receipts for the year rose by 11·42 per cent. and the total charges by 13·32 per cent. About 33 per cent. of the expenditure was devoted to the upkeep and improvement of the forests and 67 per cent. to exploitation, etc. Departmental working yielded a net profit of 34 per cent. against a percentage of 28 in the previous year.

It will be seen from Form 79 that the value of timber and other produce at sale depots at the close of the year amounted to Rs. 1,54,887 or Rs. 18,207 less than it was at the close of the previous year.

The outstanding revenue at the close of the year was Rs. 1,40,674 which was less than the last year's closing balance by Rs. 68,944. The total value of sales during the year exceeded that of the previous year by Rs. 1,22,370. Out of Rupees 1,40,674 the amount actually due to the department at the end of the year deducting the lease amounts falling due after the close of the year, *viz.*, Rs. 1,04,942, was only Rs. 35,732.

The important variations under the several budget heads of revenue and expenditure during the two years 1908–1909 and 1909–1910 are explained below :—

RECEIPTS.

(i) *By Departmental Agency.*

Timber + Rs. 8,708.—Due to the disposal of previous year's stock, to increased demand for small timbers and opening of additional timber depots in *North Cuddapah* and to increased departmental operations and to better prices realised for redwood roots and stumps in *North Arcot.*

Fuel + Rs. 98,688.—Due to extensive departmental operations carried on in most of the districts and to opening of additional depots in some of them.

Bamboos + Rs. 2,388.—Due chiefly to working coupes departmentally in Dharmapuri and Hosur ranges, *North Salem*, for supply to sale depots.

Sandalwood + Rs. 48,920.—Due to the sale during the year of the previous year's collections in *North Arcot*, and to the working of coupes on the Tenmalais as per Javadi provisional working-plan in *South Arcot.*

Minor produce + Rs. 551.—Due principally in *Guntúr* and *East Cuddapah*, to increased sales of hay, but this was partly counterbalanced by decrease in *Nellore* from non-sale of minor produce on account of its collection not having been completed.

(ii) *By Purchasers.*

Timber + Rs. 10,125.—Due mainly to increased revenue realised from the sale of trees on darkhast lands in *Chingleput* and *North Arcot* and to the crediting of revenue realised from this source to this head instead of to II (*b*) as in previous years in *Guntúr* and *Trichinopoly*.

Fuel — *Rs.* 32,191.—Due chiefly in *Nellore* and *North Arcot* to fewer coupes sold to contractors; in *South Arcot* and *North Salem* to increased departmental operations; in *Trichinopoly* and *Guntúr* to the transfer of revenue from darkhast lands to sub-head II (*a*) and in *Tanjore* to non-sale of coupes to contractors and to less revenue realised from sale of deadwood and withered trees in several taluks.

Bamboos + *Rs.* 10,440.—Due mainly in *North Salem* to sale of blocks in Tiruppattúr and Salem West ranges and to advance collection of an instalment falling due in the current year, and in *East Cuddapah* to better demand and to advance collection of an instalment; but this was partly counterbalanced by decrease in *South Arcot* owing to undue competition in the sales of previous year.

Grazing and fodder grass — *Rs.* 22,758.—Has occurred in all the districts except *North Arcot* and *Tanjore*, and is generally attributed to unfavourable season in *North and East Cuddapah* and *North Salem*, to advances taken from permit-issuing officers in 1908-1909 credited to this head in *South Arcot*, to fall in the number of goats admitted under the new grazing scheme and want of fodder owing to drought in *Nellore*. The increase in *North Arcot* is due to more goats being licensed and compensation fees realised.

Other produce + Rs. 76,059.—Due chiefly to better and abnormal prices *realised* for minor produce, especially tanning barks, amroy and aloes, more manure leaves being taken on permit in all the districts except *North Salem*, *Tanjore* and *Guntúr*.

(iii) *Miscellaneous* (*including confiscated drift and waifwood*).

Revenue — Rs. 4,207.—Due to less receipts for compounding chiefly in *North Cuddapah*, *Nellore*, *South Arcot*, *South Salem*, *Guntúr* and *Tanjore*. On the other hand, there was increase in *North Salem* from forfeiture of contractors' deposits and from large compounding fees in this, *North Arcot* and *Trichinopoly* districts.

EXPENDITURE.

A.—Conservancy and Works.

The expenditure under this head exceeded that of the previous year by Rs. 1,23,220 and this was due chiefly (1) to extensive departmental fuel operations; (2) to feed and keep of more draught bullocks in *South Arcot*, *North Salem* and *Trichinopoly* and purchase of more animals in *North Salem*; (3) to construction and improvement of roads in *North Salem*; (4) to construction of rest-houses and houses for subordinates in *East* and *South Cuddapah*, *Chingleput*, *South Arcot* and *North Salem* and of compound walls to range offices and sinking wells; (5) to the acquisition of a depot site in *Guntúr*; (6) to extensive planting operations in *Guntúr*, *Nellore* and *Chingleput*; (7) to increased expenditure on fire protection chiefly in *North* and *East Cuddapah* and *North Salem*; (8) to payment of grain compensation, to repair of water-sources and to the employment of watchers for Guindy Park and to the works carried out therein.

B.—Establishments.

The increased expenditure of Rs. 15,550 was due to the appointment and deputation of a stipendiary student for Provincial Service, and of substitutes for those deputed to the Imperial Forest College, Dehra Dun, to the reorganization of subordinate establishments, to the appointment of accountants in the Circle and District Forest offices for the whole year instead of only for a part as in the previous year and to the increments drawn by office establishments.

CHAPTER IV.—ADMINISTRATION.

42. The Circle was in charge of Mr. C. E. Brasier until 23rd April 1910 and in charge of Mr. T. P. Peake for the rest of the year.

New Ranges.—No new ranges were formed for want of competent rangers to hold charge, although there is pressing necessity for the formation of some of them already sanctioned.

43. *Conduct of the executive establishment.*—The conduct of the executive staff was unsatisfactory in *North* and *East Cuddapah*, *Nellore*, *Trichinopoly*, *North* and *South Salem*, and more or less satisfactory in others, while that of the protective staff continued to be unsatisfactory as in previous years. The conduct of the establishment is referred to below in detail:—

Removed from service.—Three Rangers (two in *North Arcot* and one in *Chingleput*) were removed and the services of another in *East Cuddapah* were dispensed with. Four Probationary or Acting Deputy Rangers (two in *East Cuddapah*, one in *Chingleput* and in *North Salem*) and eight Foresters, most of them acting.

Resignations.—Three Deputy Rangers (*North Salem*) and two Foresters (in *East Cuddapah* and *Trichinopoly*).

Reductions.—One Ranger in *North Cuddapah* was reduced from 4th to 5th grade and another in *Nellore* from 3rd to 4th and invalided and a third in *South Arcot* from Ranger 6th to Deputy Ranger 1st, since removed from service on appeal to the Board, and one Ranger in *South Salem* was temporarily reduced from 5th to 6th and one conditional Ranger in *East Cuddapah* reverted to Deputy Ranger. Three Rangers (two in *North Cuddapah* and one in *South Salem*) were debarred from further promotion for one year. Five Foresters (one in *East Cuddapah*, one in *Chingleput* and three in *North Salem*).

Suspensions.—Six Rangers—one in *Nellore* afterwards invalided; two in *South Salem* (one for three days and one till he joined his new district); one in *Trichinopoly* for three months and transferred to another district; two in *North Salem*, one a Probationer and another till he joined his new district: two Deputy Rangers—one in *North Cuddapah* afterwards resigned and one in *Chingleput* for three months and then transferred: and four Foresters (one each in *North* and *East Cuddapah* and two in *Nellore*).

Work condemned.—Six Rangers (one each in the three divisions of *Cuddapah* and *Tanjore* and two in *Trichinopoly*).

Specially commended.- The work of Rangers Messrs. Gaudoin and Aranha are reported to have been very satisfactory. Rangers M.R.Ry. S. Ponnuswami Mudaliyar (*North Cuddapah*) and M.R.Ry. C. Balayya Nayudu (*Nellore*) are specially commended.

44. *Ministerial establishment.*—The pay of the last clerk's post on Rs. 15 on both permanent and temporary establishments in all the offices was raised to Rs. 20. The conduct of the ministerial establishment was good on the whole in *East Cuddapah*, satisfactory in others except *Tanjore* and *Trichinopoly*, where it was bad, and *South Salem*, far from satisfactory. The head clerk and two range clerks were removed in *North Cuddapah*.

45. *Health of the establishment and casualties.*—The year was, as usual, a very unhealthy one in *North* and *East Cuddapah*, in Sriharikota and part of Coast range, *Nellore*, in the Javadis in *North Arcot*, and in the Pachamalais in *Trichinopoly*. Two watchers and a tannadar in *North Cuddapah*, one watcher in *East Cuddapah*, one Forester in *North Arcot*, and a Forest guard in *South Salem*, died.

46. *Relations between Revenue and Forest officials.*—The relations in every district continued to be cordial. In *North* and *East Cuddapah*, the District Forest Officers, and in *Nellore*, *Chingleput*, *South Arcot* and *North Salem*, Range officers, attended the jamabandi. In *Chingleput*, the assignment of 30 acres of assessed waste on darkhast came up for discussion and on objection being raised by the Range officer, Tiruvallúr, that the land adjoins the boundary of Ugumudy reserve and the conservancy block granted to Ugumudy villagers, the petition was rejected.

47. *Service books.*—These are reported to have been verified and maintained in all the districts.

48. *Conservator's inspections.*—All the districts were visited and all District Forest offices inspected. Mr. Brasier attended the Board of Forestry at Dehra Dun in April.

49. *Touring of District Forest Officers.*—All the District Forest Officers have spent more than six months in camp except in the case of *Nellore*, *North Arcot* and *Guntúr*, due to absence of officers on leave and placing of two districts in charge of one officer.

50. *Inspection of Range offices.*—All the range offices were inspected except one in *North Cuddapah* (since inspected in July) and one in *Guntúr* which probably is due to change of District Forest Officers. One range in *Nellore*, four in *Trichinopoly* and one in *Tanjore* were inspected twice.

51. *Audit of Accounts of the District Forest offices.*—The accounts of all the District Forest offices except *North* and *East Cuddapah* were audited by the special staff of Inspectors of the Accountant-General's office and those of *Trichinopoly* and *Tanjore* twice. The results were considered to be satisfactory.

52. *Imperial Forest College, Dehra Dun.*—During the year, one stipendiary student for appointment in the Provincial Service and five Probationary Rangers were deputed for training as Government students. One Deputy Ranger and two stipendiary students returned with Ranger's certificate. The two stipendiary students for Provincial Service obtained Honours certificate and are undergoing third year's course.

53. *Vernacular Training Schools.*—Nine guards were deputed to the Vernacular Training school at Sandur and three foresters and seven guards to the school at Bhavâni. Of the foresters, the services of one were dispensed with having deserted, the second left the service and the third resigned.

54. *Work and Services of Superior Officers.*—The following remarks have been made by the Collectors regarding work of the several officers serving under them :— *Cuddapah—By Mr. P. S. P. Rice—North and South.*—" Messrs. T. Bapu Rao, " H. F. Arbuthnot and J. A. Daly—I know practically nothing of these officers. " Mr. Daly is zealous and painstaking. The others had left the district before I " arrived." *East.*—" From the little I have seen of his work, I am very well " satisfied with M.R.Ry. C. M. Maduranayakam Pillai. He has lately been unwell " and unable to do himself justice, but I have really no complaint to make." *Nellore—By Khan Bahadur Khadir Navaz Khan.*—" The year's administration " is, as usual, efficient and creditable to the District Forest Officer M.R.Ry. Rao Sahib " T. M. Nallaswami Nayudu." *Chingleput—By Mr. Lionel Vibert.*—" Khan Sahib " Saiyid Burhan-ud din Sahib is a keen and energetic officer and has worked hard." *North Arcot—By Mr. N. S. Brodie.*—" Mr. J. S. Battie was in charge of the " district from 1st July 1909 to 10th April 1910 and Mr. H. F. Arbuthnot from 3rd " May to 30th June 1910. Mr. Battie was therefore responsible for the administra- " tion of the department during the greater part of the year and did his work, as usual, " tactfully and well." *South Arcot—By Mr. A. F. G. Moscardi.*—" Rao Bahadur " V. Alwar Chetti continued to do very good work as District Forest Officer." *Salem—By Mr. L. E. Buckley—North.*—" Mr. Dawson left the division on 9th " September 1909. The District Forest Officer considers that he displayed, as usual, " commendable energy in touring and office work, and that his transfer was a serious " loss to the administration of the division. Mr. Clear was only a few weeks in the " division during the period under report." *Trichinopoly-Tanjore—By Mr. M. Young.*—" M.R.Ry. K. Aswatham Nayudu Garu, Extra Assistant Conservator of " Forests, was in charge of the district from 1st June 1909 to 30th November 1909, " and Mr. C. Du. Pre Thornton, Deputy Conservator of Forests, from 1st December " 1909. Mr. Thornton continued to be as energetic and keen as he had always been. " He has worked exceedingly hard to get rid of the arrears left to him by his *locum* " *tenens* and has done much to put things in order again. M.R.Ry. K. Aswatham " Nayudu Garu worked hard, but he was deceived by his subordinates and he left " the district in a state of considerable confusion." *By Mr. R. F. Austin.*—" M.R.Ry. " K. Aswatham Nayudu Garu, who had been in charge of the district since April " 1909, was relieved by the permanent District Forest Officer C. Du. Pre Thornton, " Esq., on the 3rd December 1909, and proceeded on leave on medical certificate for " one year. Mr. Aswatham Nayudu Garu's outdoor work accordingly did not come " under my observation. He seems to have been unfortunate in his choice and " management of office subordinates. My brief observation of Mr. Thornton's work " enables me to testify to his energy and zeal and I regret that since my joining he has " been so much engaged in Trichinopoly, as the forest work of this district, though " not extensive, has an importance of its own."

Mr. Cowley-Brown in *North Salem* must have expended at least as much energy as was observed by Mr. Brasier in the last report, as the amount of work turned out and development of communications, etc., show. Mr. Wimbush worked loyally for the short time he returned to *South Salem* and would, in time, I am sure, have made a good job of getting things into order there, had he remained.

Mr. Maduranayakam Pillai is a reliable officer and has managed his division well. It is to be hoped that his continued stay in *Cuddapah* will not undermine his health altogether.

CHAPTER V.—GENERAL.

55. *Realization of revenue from the usufruct of toddy-yielding trees on Government wastes and poramboke lands.*—The revenue realized was Rs. 33,505 against Rs. 36,316. In *North* and *South Cuddapah* and *North Salem*, the fixed fee system remained in force, the revenue collected from this was Rs. 2,143, 2,897, 1,912 against Rs. 2,478, 3,397, 2,045 respectively. In *Nellore*, the revenue fell a little from Rs. 3,102 to Rs. 2,864 and the rates charged for palmyra and date trees continued to be one anna per annum. In *South Salem*, the usufruct of such of the trees as were not taken up under the fixed fee system was leased out as usual, and the revenue realised under the fixed fee system and leasing was Rs. 380 and 2,443 against Rs. 521 and 2,504 in the previous year respectively. There was a slight decrease in other

districts except *East Cuddapah* and *Trichinopoly*. In *East Cuddapah*, the revenue rose slightly from Rs. 1,805 to Rs. 1,915 and in *Trichinopoly*, it was Rs. 4 against *nil* in the previous year.

56. *Measures adopted to encourage the growth of manure leaf-yielding trees and shrubs.*—In *North Cuddapah*, in 250 acres of Cuddapah range, seeds of manure leaf-yielding species were sown and in 2 acres of a plot of land relinquished by a ryot, wild indigo. The seeds germinated and seedlings were flourishing, but died off gradually for want of rains and continued drought. In the other two ranges, the Range Officers were slack and the operation was not conducted on a large scale. In *East Cuddapah*, some quantity of *Tephrosia purpurea* and *Pithecolobium saman* were distributed to ryots in the Cuddapah taluk through a private gentleman. Seeds of special species were collected. Fifty acres in two plots were cleared and fenced and kept ready for sowing with several species, but it was not done owing to complete failure of rains in September. In *South Cuddapah*, 23 acres in four coupes were sown broadcast with *Cassia auriculata*, *Dodonæa viscosa*, and *Pongamia glabra*. The seeds germinated, but could not withstand the drought that followed. *Jatropha* and *Poinciana elata* cuttings were planted, but did not succeed. In *Nellore*, suitable plots were selected in three ranges and seeds of manure leaf-yielding species were sown, but owing to failure of rains the experiment proved unsuccessful in all the ranges. An expenditure of Rs. 118 was incurred. In *Chingleput*, about 1,206 acres in coupes closed to grazing and blank areas in reserved forests of the two ranges, Chiingleput and Tiruvallúr, were sown with seeds of five different species. Forty per cent. of the seedlings in the former and 60 per cent. in the latter have survived the hot weather and are reported to be in a fair condition. The question of growing of manure leaf on poramboke lands on the cowle system was discussed by the Divisional officers during jamabandi and the granting of lands for this purpose is under consideration. In *North Arcot*, a few acres in Sáttúr reserve was ploughed and sown with seeds of *Acacia auriculata* and *Tephrosia purpurea*, etc., with poor results. Steps are being taken by the Revenue Department to assign lands on cowle tenure for the purpose of growing manure shrubs. In *South Arcot*, seeds of manure leaf-yielding species were sown in blank areas in two ranges. In *North Salem*, no special measures were taken in three ranges, as there was no demand for manure leaves. In *South Salem*, besides those mentioned under cultural operations, no special experiments were made. In *Trichinopoly*, no special measures were undertaken to any appreciable extent, as there is ample green leaf manure in the forests of the Pachamalais. In *Tanjore*, nothing has been done besides collecting seeds of different species. In *Guntúr*, there is at present no demand for manure leaves. With regard to the quantity of manure leaf that can be grown on an acre and the quantity required for manuring an acre, I addressed Collectors and District Forest Officers independently, but all figures given vary greatly and mostly seem to be of very little value. They run from 2 to 10 cart-loads both for yield and for requirement. Whether the yield refers to lopping or reaping of forest growth is not stated in any case, and it does not appear if leaf has been regularly grown as a field crop anywhere. The production ought certainly to be more. No one has stated what the yield of *indigo* is, though reliable figures for it should be easily obtainable by Tahsildars and they would serve as a standard.

RULES UNDER THE FOREST ACT.

57. *Timber Transit Rules.*—Transit rules for timber in the three divisions of *Cuddapah*, for sandalwood in *North and South Salem*, and for sandalwood and Red Sanders in *North Arcot*, worked satisfactorily, and no complaint was brought to notice. The Board having declined to approve transit rules for *Trichinopoly*, a general order in the form of a notice was issued locally that wood and manure leaves removed from patta lands should be covered by chits (attakshis) obtained from village officers in order to prevent illicit felling and smuggling of poramboke trees under cover of permits. For *Guntúr*, the revised transit rules await the sanction of Government.

58. *Rules under Section* 26 *of the Forest Act.*—The privileges allowed by these rules were generally availed of by the people and no complaint or abuses were brought to light except in *East Cuddapah and South Salem*. In *East Cuddapah*, the privilege was abused by goat herds hacking and cutting tops of valuable trees in unreserved lands and in *South Salem*, many infringements of the rules (collection of firewood and manure leaf for sale or for use in other than "neighbouring" villages) were detected in the large areas of unreserved forests in the Atur range.

59. *Inventory of valuable stock.*—The stock registers are reported to have been maintained and verified in all the districts.

60. *Rain-gauges.*—In *North Cuddapah*, *Chingleput* and *Trichinopoly*, there are no rain-gauges and in other districts readings were properly recorded.

61. *Supply of forest produce to meet the wants of the people.*—As usual, the sale of timber, fuel, bamboos and agricultural implements in departmental depots at reasonable rates have proved most useful in meeting the demands of the people ; but that various town depots for firewood have, as reported by Collectors, been very popular, because the selling rates were low, cannot altogether be regarded as satisfactory. Little progress was made in transferring the distribution of fuel back to private agency, and it will, I fear, take a long time and much care and trouble to effect it without causing complications and get rid of the tremendous *incubus* which the sudden growth of departmental traffic has laid upon us. In *North Cuddapah*, permits were issued to a small extent for the removal of forest produce for *bonâ fide* domestic and agricultural purposes in places where the depots are too far away. In *East Cuddapah*, chits were issued to villagers for fuel stacked in the forests. In *South Cuddapah*, permits were issued in places where the demand was too small or where for other reasons localised felling was impossible to meet the wants of the people. In *Chingleput*, permits for 1st, 2nd and 3rd class timbers from unreserved lands were issued, as also for manure leaves from forests open to grazing and minor produce. Fuel was sold to villagers in the coupes felled departmentally as also in the several sale depots. In the latter the demand could not be fully met by the limited yield. This would appear to conflict somewhat with a view recently expressed by the Acting Collector that reservation had been over-done in the district. In *North Arcot*, permits were issued for grazing and manure leaf in all the ranges and for bamboos from coupes of sanctioned working plans in three ranges worked departmentally. Fuel and bamboos were also supplied to ryots on payment of seigniorage rates *plus* the cost of collection. In *North Salem*, permits were issued for unreserves and in *Trichinopoly* for cattle grazing and minor produce, from stations located at convenient centres.

62. *Sale of fuel at the edge of the forests.*—In *North Cuddapah*, fuel is sold at the edge of the coupes to resident ryots and bullmen. No contractors have come forward to purchase standing growth in the forests and to sell fuel in the towns owing to difficulty of controlling bullmen. In *East Cuddapah*, fuel chits were issued to villagers for fuel stacked in fuel coupes. Steps were taken to abolish the system of selling fuel in town sale depots and to introduce that of selling fuel at the edge of the forests binding them to retail it to the public at the prevailing rates. In *South Cuddapah*, besides leasing out two coupes to contractors for sugarcane-boiling, 837 cart-loads of fuel out of fourteen coupes worked departmentally were sold to the ryots at the edge of the forests. In *Nellore*, steps are being taken to give effect to this. In *Chingleput*, fuel felled departmentally was sold to ryots wherever there was demand and also to a contractor for sale in two depots handed over to him, but the results were not satisfactory in the case of the contractor, as he failed to purchase the full yield of the coupes which necessitated the transport of fuel to Madras depots. In *North Arcot*, forest produce was sold at the edge of the forests in five ranges to some extent to ryots for sugarcane-boiling purposes and to contractors for brick-kilns, etc., and also in the coupe in one of the above five ranges at depot rates less cart hire. In *South Arcot*, forest produce is, as a rule, sold in or at the edge of the forests and in the case of casuarina plantations, the wood is felled and stacked by piece-workers in the coupes and the bulk of the produce is sold to contractors except a small quantity which is removed to sale depots. Only in places where contractors were not forthcoming, the produce was felled departmentally and removed to sale depots. In *North Salem*, tenders were invited for the removal and disposal of forest produce in three most important and accessible coupes. None were received, but it must be due to the short notice. Further attempts will be made. In *Trichinopoly* and *Tanjore*, the matter is under contemplation. The system does not commend itself to the Collectors, as the produce is apt to be smuggled with that on private and poramboke lands, but I do not know that this is more the case in these districts than elsewhere. In *Guntúr*, produce is not disposed of to any appreciable extent on the edge of the forests owing to want of enterprise on the part of the local men.

63. *Arrangements made for the transfer of sale depots to private agency.*—In *North Cuddapah*, tenders were received only for two out of the three sale depots and in *East Cuddapah* for five sale depots proposed to be transferred for the retail sale of fuel, and were accepted. The Collector is of opinion that the margin of profit allowed

is too low in the latter district and I have agreed with him. In *Nellore*, four depots were advertised for sale by tenders, but as few tenders were received for only two depots with certain conditions which appeared to interfere with the interests of the department, they were not accepted. As advised by the Conservator, the auction-sale system will be tried, as it will give opportunity of discussion with the contractors and hearing their objections and difficulties and meeting them. In *Chingleput*, two sale depots were leased out during the year and the results are reported to be not encouraging. In *South Arcot*, the attempt made to transfer the sale depot at Tiruvannámalai to private agency proved unsuccessful. In *North Salem*, eight depots were leased out to contractors binding them down to sell produce at the rates fixed by Government except in the Bangalore depot. In *South Salem*, two fuel depots were leased out to contractors. In *Guntúr*, the question is still under consideration.

64. *Cultivation in reserved forests.*—In *East Cuddapah*, about 11 acres of dry land was leased out for cultivation on a rental of Rs. 5–11–2; while in *South Arcot*, cultivation exists to any extent only in the Tenmalai reserved forest and proposals for disafforesting all such areas have been submitted. In *North* and *South Salem*, there were no fresh grants, only the renewal of those given in previous years. In *Trichinopoly*, about 10 acres of land in Lalapet reserved forest was leased out for *korai* grass cultivation for five years.

65. *Suits.*—In *North Cuddapah*, the Official Assignee has been addressed to file a suit against a contractor for the recovery of balance instalment due for the lease of a palmyra plantation. In *Nellore*, the suit in the High Court referred to in the last year's report is still pending. In *Trichinopoly*, a suit instituted by a late contractor is pending in the sub-court. In *North Salem*, the second appeal in one of the claims of the Hudaidurgam block has not yet been disposed of. The case has been remanded to the District Court for further enquiry on two findings. In *Guntúr*, the suit filed against contractor V. Narayana Rao was decreed in favour of Government and steps are being taken to recover the amount.

66. *Live-stock.*—In *East Cuddapah*, one pair of bullocks was sold, one bull died in the Veterinary hospital in Madras and $2\frac{1}{2}$ pairs were purchased. There were 5 pairs in good condition and working order at the end of the year. In *South Cuddapah*, two buffaloes were maintained for watering plants on Horsleykonda. In *South Arcot*, out of 5 pairs purchased in the previous year 3 pairs were written off, as they were losing condition. In *Trichinopoly*, eight bullocks purchased last year are reported to be in good condition. In *North Salem*, there were 27 pairs at the beginning of the year. Of these $2\frac{1}{2}$ pairs were sold being unserviceable and 7 pairs were purchased. There remained $31\frac{1}{2}$ pairs at the close of the year.

67. *Hill tribes.*—In *Trichinopoly*, the Malayalis on the Pachamalais were given certain concessions in respect of certain cultivation, forest produce and grazing and in return helped the department in both general and fire-protection.

68. *Prospecting licenses.*—In *North Cuddapah*, about 945 acres were leased out in five reserves to five individuals for prospecting minerals. Operations have not yet been started and no royalty collected, but only ground-rent of Rs. 167–12–0 was realised. In *East Cuddapah*, the license for prospecting for copper referred to last year was issued, but as no work was done, it was cancelled. In *Trichinopoly*, a license for prospecting for wolfram and its associated minerals was issued to Mr. Thomas Leishman of the Corona Prospecting Syndicate, Bangalore, but work had not been commenced up to the close of the year.

Mica and Mica Mining.

69. *Applications.*—Thirty-nine applications were received during the year in addition to the 29 (number disposed of last year being 66 not 65) pending disposal at the commencement of the year, making a total of 68. Of these 54 were disposed of, leaving a balance of 14 at the end of the year. The greater number of these applications were, as usual, for prospecting licenses.

Mines in Government lands (State mines).—Of the 55 existing mines, the lease of one was cancelled, three expired by efflux of time and 12 were relinquished. Six were newly sanctioned, so that there were 45 working mines at the end of the year. Four exploring and 14 prospecting licenses were also issued during the year. Only six mines were worked without break; the work in the other mines was either irregular or *nil.* Some of the most important mines of the district held by M.R.Ry. A. Subba Nayudu were neglected on account of his financial troubles and a separate report regarding this has been submitted to the Board.

Patta land mines (shared mines).—The year commenced with 29 and closed with 24. Two mines worked continuously in the year and the other mines did not work well.

Mines in permanently-settled estates (private mines).—The number of these mines fell during the year from 20 to 6. Nine of these were worked in shrotriem lands, six in zamindari and one in inam land.

Illicit mining.—A case of unauthorised mining arose out of an encroachment by a licensee. The mica got was seized and sold in public auction.

Outturn and royalty.—There was a large decrease both in the output and the royaltly realized as will be observed from the figures noted in the margin. The fall is due chiefly to the non-working of the best mines in the district and partly also to the depression of trade.

	LB.	OZ.	RS.
1908-1909	600,395	11	13,886
1909-1910	239,952	9	7,569

Financial results.—The total revenue realized during the year was Rs. 12,215 against Rs. 20,951 in the previous year.

Labour.—About 2,644 persons, of whom 1,295 were men, 1,022 women and 327 children, had employment during the year against 3,228 in the previous year. The decrease is due to the slackness in working. The wages and the hours of working were the same as in previous years.

Accidents.—There was one slight accident due to the unexpected bursting of a charge of dynamite. There was a slight injury to a man and he recovered shortly after.

Ventilation and lighting in tunnels.—Tunnel working was carried on in 7 mines and there were no complaints with regard to ventilation or lighting.

Inspection by Superior officers.—The District Medical and Sanitary Officer inspected 10 mines, the Collector 14 mines and the Inspector of Mines, 50.

Prospects of industry.—There was no change in the prospects of the industry and the low prices of mica continued during the year. A new mineral known as "Sameskite" was discovered in the Sankara mine, and it is considered to be a valuable one likely to give a stimulus to the mining industry. Applications are being received for prospecting licenses in respect of this mineral. Mr. Fred Cross of the Anglo-Indian Trading Company has applied for a prospecting license in respect of copper.

MADRAS DEPOTS.

70. The depots have gained greater popularity and the sales have improved considerably and promise still further to improve gradually.

Depots and depot sites.—No new depots were opened during the year, but the depot site at Moolakothalam had to be vacated for handing over to Public Works Department. A new site consisting of six grounds on a rental of Rs. 30 per mensem was selected at Kondi tope and occupied from 1st January. The tiled shed at Rayapuram was purchased at a cost of Rs. 50 for the use of depot-keeper.

Supply and disposal of produce at the depots.—Appendix H shows the sources of supply, the quantity received and disposed of and the revenue realised during the year in the different depots. From that it will be observed that the quantity sold and the revenue realized from the different kinds of produce rose during the year on account of increased supplies and increased demand, except in the case of charcoal. The fall under this is due to the large quantity of private charcoal brought from zamindari forests and sold at cheaper rates, and to the Madras club discontinuing its custom.

Financial Results.—The following statement compares the revenue and expenditure with those of the previous year:—

	1908-09.	1909-10.
	RS.	RS.
Revenue	99,814	1,21,980
Expenditure	19,939	22,723

The percentage of expenditure to revenue, viz., nearly 20 per cent., seems to be high for mere depot expenses, but there is a slight reduction compared with the previous year.

Establishments.—The establishment was increased a little from March 1910 by the addition of two gate-keepers on Rs. 8 each and two depot-watchers on Rs. 6 each and one depot clerk on Rs. 15.

T. P. PEAKE,
Ag. Conservator of Forests, Central Circle.

20th September 1910.

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MADRAS PRESIDENCY,

SOUTHERN CIRCLE FOR 1909–1910.

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FOREST ADMINISTRATION REPORT

OF THE SOUTHERN CIRCLE

FOR THE

FOREST YEAR ENDING 30TH JUNE 1910.

CHAPTER I.—CONSTITUTION OF STATE FORESTS.

1. Alteration in Area.

Reserved forests.—The total area was 4,995 square miles against 4,908 square miles at the commencement of the year. Of the increase, 84 square miles are only apparent being due to adoption of Survey of India figures in *Kollegal* and *North Coimbatore*. Three small areas of 7 acres were disafforested in the *Nilgiris*, *North Malabar* and *Tinnevelly*.

Reserved lands.—One square mile was newly constituted, 3 square miles were transferred to reserved forests and 16 to unreserves and 38 square miles erroneously included in previous years, owing to inaccurate computation, were deducted. There were 588 square miles at the close of the year; of these 108 square miles in *South Canara*, not intended to be constituted reserved forests, were awaiting inspection before being transferred to unreserves.

2. Forest Settlement.

2. Five blocks in *South Canara*, two in the *Nilgiris* and one in each of *Kollegal*, *North Coimbatore* and *Tinnevelly* were finally settled during the year. Fifteen small additions with a total area of 1 square mile were brought under settlement; ten of these were in Tinnevelly, for improving boundaries and eliminating enclosures. Thirty-six blocks remained under settlement at the end of the year, but the actual settlement of 17 of these was completed.

3. Demarcation.

3. Progress in permanent demarcation was poor except in South Canara and Madura; in the former district, 64 miles of permanent stone lining or lock-spitting was done, 18 miles by subordinates, 46 at a cost of Rs. 631; in the latter, 293 miles of boundary were permanently demarcated at a cost of Rs. 6,459. In South Malabar and the Nilgiris, boundary lines were recleared for the Survey of India, and, in the former district, the Attapadi lines were improved. No permanent demarcation was carried out in North and South Malabar, owing, it is said, to the constant changes of Officers and Rangers, but this does not account for the fact that no existing lines were kept clear by subordinates. In South Canara, it is stated that 2,015 miles of line were kept clear by subordinates free of charge; the expression is apt, for the subordinates do not clear the lines but get the clearing done by certain classes of villagers who use the reserves. The expenditure in Tinnevelly was incurred chiefly on the demarcation of enclosures and coupes; the demarcation of the annual coupes should not be charged to demarcation, as the inclusion of figures relating merely to the clearing of lines in connection with working the forests, with those relating to the capital cost of demarcation of the forests, produces a false impression.

4. Forest Surveys.

(a) *By the Survey of India Party.*

4. Numbers 7 and 8 parties continued the survey operations on the 2-inch scale, the former in South Canara and the latter in the Nilgiris and Central and South Coimbatore. 39·748 square miles of reserves in South Canara were surveyed. In

the Nilgiris, the survey of reserved forests was completed. In Central Coimbatore, the survey of Attapadi valley was completed and three other forests, covering 29 square miles, were also surveyed. In South Coimbatore the greater part of the Anamalai reserved forest covering 130 square miles was resurveyed on the 2-inch scale, as the 4-inch scale maps were found to be inaccurate. The inaccuracy of these maps has been well brought out by the survey for a light tramway in the Tekadi leased forest; much of the plane-table work must have consisted of the roughest possible sketching, for, not only are hillocks omitted, but streams are entered with no regard to their actual position on the ground.

(b) By Departmental Survey.

5. The coupes of the year in North Malabar, Central and South Coimbatore and Tinnevelly were surveyed departmentally. A Special Officer was appointed at the close of the year, for verification of boundaries of the forests in Bhavani and Satyamangalam Taluks. In Madura a Surveyor, under the supervision of the Special Deputy Collector appointed to investigate certain forest questions, surveyed the areas cultivated within the forests of the Palni Hills.

CHAPTER II.—MANAGEMENT OF STATE FORESTS.

1. Regulation of Management.

(a) Preparation and Control of Regular Working Plans.

6. No new working plan was either drawn up or sanctioned during the year. Considering that the circle was short of District Forest Officers and of Rangers during the year and that the establishment was fully employed on protection and works, no progress could be expected. The revision of the working plan for the Mount Stuart forests prepared by Mr. Arbuthnot was not completed by the District Forest Officer, South Coimbatore, but a good deal of information had been collected for the purpose. Several minor deviations from the prescriptions of the sanctioned working plans concerning area, material, order, etc., of coupes were sanctioned. The important deviations were as follow :—

In *South Canara*, bamboos were not extracted from Mavinakodlu, nor were sandalwood stills worked in Andar North and Nire reserves for want of demand; bamboos were not felled from Shibaje coupe, as sufficient to meet the demand were extracted from Nerankimale; fuel fellings were not undertaken in Narimogar and Mulliar reserves, as the stock was sufficient. In *Kollegal*, the removal of spiked and dead sandalwood trees in Bailur continued and consequently the coupe prescribed for the year was not worked. In *North Coimbatore*, spiked and dead sandalwood trees were removed from coupes IV and V of Gutialattur sandalwood working circle. With the exception of the working plans for Walayar and Sholakarai reserves, for one of the working circles of Bolampatti and for Erode Range, the others in *Central Coimbatore* are unworkable, but wherever possible coupes were worked irrespective of the prescriptions of the working plans. Work in the Varigalli valley in *South Coimbatore* was not commenced as the export road has not been constructed. Thalinji working plan was not worked, the road for exploitation not being opened owing to apathy and incompetence of Range Officers.

(b) Preliminary Working Plans Reports.

7. A revised preliminary working plan for Mudumalai, Benne and Kumbarakolli reserves in the Nilgiris was prepared and awaits the sanction of the Board. A preliminary working plan report was also prepared for Puliangudi working circle (5 square miles) in Vasudevanallur Ghat forest of Tinnevelly district and approved by the Conservator.

(c) Annual Plans of Operations.

8. These were generally adhered to and the important deviations apart from those mentioned under "Working Plans" were—*South Canara.*—Charcoal and fuel from Durgamale coupe were not transported to Mangalore and Karkal respectively, as the stock in Mangalore was sufficient and the cost of transport to Karkal was

prohibitive. The depot at Coondapur was handed over to be worked by a contractor. *North Malabar.*—No timber was transported to Nanjangode, Mysore and Hampapur, as the stock was disposed of in the forests. The bridges on the Kottiyur road were not constructed owing to delay in revising the plans and estimate; Kurichiyat reserve was not demarcated, estimate not being prepared in time. The proposed rest-house at Bavali was not built as funds were required for the incomplete works of the previous year and it is not certain that a rest-house at Bavali is required. *South Malabar.*—The construction of a rest-house at Thodikundy in Attapadi was deferred. *The Nilgiris.*—Hay was not manufactured at Anaikatti on an extensive scale as proposed. *Kollegal.*—The rest-house at Gobinatham was not built, as funds were required for other works. The construction of Ponnachi road was postponed, a portion of it not having been traced for want of establishment. *North Coimbatore.*—Two proposed roads were not constructed partly for want of funds and partly on account of inadequate establishment. *Central Coimbatore.*—The proposed Tholampalayam inspection bungalow was deferred, as there is no need for it until a revised working plan has been framed. Prickly-pear was removed from several coupes covering a large area. *South Coimbatore.*—The estimated quantity of timber was not transported owing to the difficulty of procuring carts; the construction of Tekadi ghat and other proposed roads was deferred for want of an Engineering Surveyor, but much progress was made at the close of the year in aligning and tracing. *Tinnevelly.*—The construction of subordinates' quarters at Naranapuram and the conversion of Pappuparai-Chinna Othu path into a bridle-path were deferred, site not having been acquired for the former and a practical trace not having been found for the latter. Progress has not been satisfactory, and this is chiefly due to the fact that the annual plan of operations depends for its execution upon a sufficiency of District Forest Officers, and competent Rangers, whereas actually there was a shortage of both; district charges have been doubled and range charges have been held by unqualified Deputy Rangers. The development of the forests must suffer until the department is properly manned.

2. Communications and Buildings.

9. The outlay on communications was Rs. 39,065, that on buildings Rs. 42,974, as compared with Rs. 40,636 and Rs. 37,047 respectively during 1908–1909; details of the work done are given in Form 70.

(*a*) *Roads and Bridges.*

Large sums were spent on repairs to the semi-public roads in *Kollegal* and *North Coimbatore*, the condition of which is improving. In *South Coimbatore*, progress was made on the first section of the Varigalli valley road; plans and estimates for the whole road were prepared, submitted to Government and received back for further detail. The Tekadi ghat project was under investigation at the close of the year. In *Madura*, the scheme of roads in the north-east portion of the district is approaching completion, but at the same time the length to be maintained and improved is increasing; the District and Taluk Boards, recognising the importance of the system of roads contribute very fairly to their upkeep. In *Tinnevelly*, six new works were in progress, but none were completed during the year.

(*b*) *Tramways and Wire-ropeway.*

The plans and estimates for the proposed Wynaad tramway were returned for revision, and it has since been proposed to obtain a road train instead of a tramway and to convert the tramway trace into a road. The tramway in Tunacadavu range was worked as usual; a feeder to coupe XVI was laid down and a diversion was made on the main line, to avoid a bad bit of grading. The financial statement as usual shows a loss, and as usual is misleading, for carts cannot be obtained at the rates in force twenty years ago, nor can bullocks be hired without great difficulty; moreover no credit is taken for the various branches which have from time to time been added to the line, but for which more feeder roads would have had to be made. Whatever the financial statement may show, the tramway has enabled work to be done which could not have been done without it.

The Mount Stuart wire-ropeway was not used during the year; it was not constructed to carry heavy logs, and is consequently of no use now that there are no sawn scantlings to be sent down; moreover the supports would have had to be renewed before the ropeway could be used.

(c) *Buildings.*

The most important works were the construction of a rest-house at Chedleth in *North Malabar*, the purchase of the Mule-breeding Company's buildings at Anaikatti in the *Nilgiris*, construction of a rest-house at Araipalayam (*Kollegal*), reconstruction of the Tattakarai rest-house (*North Coimbatore*), in connection with which asbestos tiles were used, being light to transport, not very liable to breakage and reported to be sun-proof; it was found that they afford absolutely no protection from the sun, and are useless without a thick ceiling below them. In *South Coimbatore*, a rest-house and range quarters at Tekadi were commenced; in *Madura*, one rest-house and three sets of lines for subordinates and in *Tinnevelly* two sets of lines were constructed.

(d) *Miscellaneous works.*

In *South Canara*, two river beds were improved to facilitate floating; this is a work capable of considerable expansion in the West Coast districts; wells were dug, depots fenced, compounds cleared, water channels repaired as usual. An hydraulic ram was purchased to replace the pump which used to be worked by the mill machinery and supply Mount Stuart with water, but at the close of the year it had not been fixed in position.

3. Protection of Forests.

(a) *General Protection.*

10. The following statement gives a classification of the cases of the year under the different heads of offences:—

Class.	Injury to forest by fire.		Unauthorised felling or appropriation of wood and minor forest produce.		Grazing without permission or in tract in which grazing is prohibited.		Other offences.		Total cases.	
	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.	1909-10.	1908-09.
1. Cases taken into court.	37	53	627	665	313	374	146	146	1,123	1,238
2. Cases compounded ..	26	26	2,033	2,000	1,044	915	211	241	3,314	3,182
3. Cases undetected ..	296	263	4	6	224	219	4	1	528	489
Total ..	359	342	2,664	2,671	1,581	1,508	361	388	4,965	4,909

The cases under "felling" and "other offences" include 169 and 2 respectively relating to unreserved lands. The offences in such lands have not been reported from Central and South Coimbatore and Madura. Twelve cases are reported to have been dealt with by the Revenue Divisional Officer, Kollegal, but particulars are not furnished. In Tinnevelly the cases disposed of by two of the Divisional Officers were not reported.

Offences in reserved forests.—No useful comparison can be made of the cases under "felling" and "other offences" as last year's figures included the cases in unreserved lands in some districts. The increase under "injury by fire" was in South Canara due to increase in the number of fires caused by travellers, etc., which were treated as undetected offences. The grazing offences increased by 5 per cent. The increase was chiefly in North Coimbatore, Kollegal and Tinnevelly and is reported to be due to better protection and also to the detection of offences in the first district, by the students of the Vernacular Training School while being instructed in patrol work.

A large number of offences was detected by the students nearly every time they were placed on patrol duty even on comparatively small areas; this is a convincing testimony to the considerable number of offences committed but not detected or

reported; this state of affairs is only to be expected until the establishment which is quite inadequate to effect any really efficient supervision and protection is sufficiently strengthened.

11. The percentage of acquittals fell from 15·3 per cent. to 9·3. The number of cases compounded and the amount of compensation realised were 2,942 and Rs. 28,507 respectively against 2,834 and Rs 31,865 in the previous year. The variations occurred chiefly in South Canara, four divisions of Coimbatore and Madura and are not explained. The punishments inflicted by Magistrates are reported to be fair in South Canara and satisfactory in South Malabar. The offences in Bhavàni Range, Coimbatore district, continued to increase as the punishments inflicted were not deterrent. In Madura, there was a case of fire in which a lenient punishment was inflicted, and it is reported that the District Magistrate has taken due notice of it.

12. A reward of Rs. 50 was granted to a Forester in Madura for detecting a theft of elephant tusks from the forests.

(b) *Protection from fire.*

13. *Special protection.*—No change was made during the year in the method employed for protecting the forests from fire. A sum of Rs. 22,793 was spent on special fire protection operations. The area subjected to special measures amounted to 1,311 square miles against 1,174 square miles in the preceding year. Of these, 1,248 square miles were successfully protected against 1,148 square miles in the last year. The proportion of failures rose from 2 per cent. to 4·8 per cent., and the cost per square mile of successfully protected area rose from Rs. 17-13-9 to Rs. 18-4-3. The establishment of fire patrols in South Malabar had to be continued for a longer period than usual owing to want of early rains. In North Malabar, Tirunalli block covering 20 square miles was burnt, partly owing to delay in commencing the work of protection, as the establishment was short-handed, and, partly to the absence of the guard from the beat. The season was an exceptionally dry one throughout the circle and the results of special protection are excellent.

14. *General protection.*—The area estimated to have escaped fire without special measures amounted to 3,020 square miles against 931 square miles in the previous year; the increase was due chiefly to the inclusion of certain areas in South Canara, Kollegal and North Coimbatore not brought on to previous year's returns. Fires are said to have overrun 4·9 per cent. of the total area, but the figure would be equally correct if the decimal point were removed. The registration of fires in these areas continued to be unreliable; many fires were not reported and the areas of those reported were considerably underestimated; this state of affairs must continue until the areas of ranges and beats are very much reduced. In *Tinnevelly*, about 30 square miles are reported to have been burnt maliciously by graziers.

15. The number of, and the causes to which, fires were attributed are shown in Appendix H. The number of fires increased mainly in South Canara due to more accurate recording; this is possibly a direct result of the increase in the number of Rangers in the district.

(c) *Protection from cattle.*

16. The proportion of forests closed and open to grazing and browsing was as follows:—

Closed to all animals for the whole year	15 per cent.
Open to cattle, sheep and goats	84, 79 and 2 per cent., respectively.

The decrease in the area closed to grazing was due to more accurate classification in South Canara, North and South Coimbatore and to the reopening of areas closed in Tinnevelly in the previous year. The only district in which goats were admitted was *Madura*. The number of animals licensed to graze on payment was 591,882 against 566,943. This continued growth is deplorable, as many of the reserves are so heavily overgrazed that natural reproduction is much hindered. The Government of India remarked with reference to the forests of the Punjab "until the cattle

permitted to graze in any forest are restricted to such number as the area can support without deterioration, the forest administration cannot be said to be on a proper basis ". In this circle there is at present no restriction on the number of cattle admitted to any forest; information regarding the grazing possibility of the forests is being collected, and a scheme for distributing the grazing in Udamalpet Taluk of Coimbatore district has been prepared and awaits the orders of Government

A comparison of the number of animals impounded during the year with that of the previous year and with the preceding triennial average is shown in Appendix I. The number of cattle impounded was 27,152 against 25,955 in the previous year. The increase in the Nilgiris is reported to be due to stricter supervision over subordinates, in Kollegal and North Coimbatore to improved detection and in Tinnevelly to energetic supervision. In Madura there was a large decrease which is ascribed to diminishing illicit grazing

(*d*) *Protection against injuries from natural causes.*

17. In *South Canara*, caterpillars (species not reported) defoliated some of the teak in the Parappa plantation. In *North Malabar*, *Hyblæa* attacked teak in Chedleth in December; in Kanoth, the caterpillars left the trees early in November, apparently to pupate under the grass. In neither of these districts were any steps taken to combat the attack. In *South Malabar*, *Pyrausta* defoliated the young plantations in the first half of November, and both *Hyblæa* and *Pyrausta* commenced an attack in June, but the rains put an end to the attack. Locusts did not appear during the year; this is possibly due to the action taken in previous years to exterminate this pest. The mahogany borer is reported to have attacked four trees; either the borer is dying out, or its depredations have not been carefully observed. A flood in June washed out 13 plantation trees In *Kollegal* and *North Coimbatore*, the spike disease continued to spread and the working plans prescriptions had to be modified to provide for the removal of all attacked sandalwood trees; so far, the removal of spiked trees has failed to check the spread of the disease; no progress was made towards discovering the cause of spike. In *Central Coimbatore*, no extensive depredations by insects calling for special measures were reported. In *Tinnevelly*, an omniverous caterpillar (not identified) did much damage round Mundanthorai.

4. Silviculture.

(*a*) *Natural Reproduction.*

18. In *South Canara*, natural reproduction is good, but the hardwood species are being suppressed by the more rapid growth of soft-wood species; more establishment is much needed to supervise the necessary cleanings, thinnings and improvement fellings; *Hopea parviflora* hardly seeded at all. In *North Malabar*, most species except teak reproduced satisfactorily; owing to changes of District Forest Officers and to one District Forest Officer having charge of both the Malabar Forest districts, little or nothing was done to encourage teak regeneration. *Shorea Talura* is said to be reproducing remarkably well in Rampur. In *South Malabar*, *Xylia dolabriformis* is coming up in large numbers on class III soil in the plantations and in the natural forests; *Swietenia macrophylla* continues to reproduce freely in plantations 1891, 1892 of Eddacode, 1890 of Pokote and 1856 of Pannengode; reproduction in natural, deciduous and shola forests is satisfactory. Bamboos seeded in May and June and 75 per cent. of the clumps died. In the *Nilgiris* reproduction by seed is poor in the forests on the Nilgiri-Wynaad plateau. In *Kollegal* and *North Coimbatore*, reproduction is fair in areas protected from fire and cattle; teak and rosewood reproduce freely from suckers, especially in the Geddesal forests, where, however, a disastrous fire burnt back every sucker. In *Central Coimbatore*, reproduction is unsatisfactory especially in the dry areas near Mettupalayam. Babul reproduces freely in the Kunnattur and Athiur tank beds, but the seedlings have no chance against the cattle. Both bamboos (*Bambusa arundinacea* and *Dendrocalamus strictus*) seeded throughout the Walayar and Sholakarai reserves and to some extent in the Bolampatti valley. In *South Coimbatore* evergreen forests, surli (*Mesua ferrea*),

poon-spar, red and white cedars and jack were prominent in reproduction; in the deciduous forests reproduction was good, where fires were excluded; a remarkable seedling crop of *Pterocarpus Marsupium* was observed in Punachi Working Circle. In *Madura*, reproduction in the evergreen forests was satisfactory.

Coppice reproduction was satisfactory almost everywhere, where the coppiced areas were protected from fire and cattle; in *North Coimbatore*, it was exceptionally good in the Ennamangalam Working Circle. In *Central* and *South Coimbatore*, *lantana* and *Acacia Intsia* checked coppice growth, but experience shows that the check is only temporary, and, after a year or two, the coppice gets ahead of these pests; prickly-pear is a much more serious enemy and must be eradicated over large areas. In Kottur and Udamalpet, coppice was not good; the areas contain degraded forest and protection is imperfect; fires did much damage. In *Tinnevelly*, want of rain seriously affected the coppice growth, except in specially favoured localities such as Kuttalam.

(*b*) *Artificial Reproduction.*

19. *Regular plantations—South Canara.*—1·8 acres of Tannirbhavi plantation were planted with casuarina, during the year and 1·8 acres of the same plantation, actually planted last year, but paid for during the year under report are also shown in column 3 of Form 75. *North Malabar*—11,470 casualties replaced in Begur and Chedleth teak plantations. *South Malabar*—Karimpoya Coupe III, 134 acres planted with teak 8′ × 8′, three acres with *Terminalia tomentosa* 8′ × 8′; 136 acres prepared for 1910 plantation; 30,249 casualties replaced in 1909 plantation, 26,898 in 1908 and 136 cocoanuts in Beypore tope. *The Nilgiris*—nine new kinds of *Eucalyptus* were introduced from Australia; three plantations at different elevations are to be formed; the first was being formed at the close of the year; two of the Jackal plantations were fenced; the Kullar and Benhope plantations were maintained by the Curator of the Government Botanical Gardens. *South Coimbatore*—12 acres of an old teak plantation, overgrown with bamboo, were cleared in Tunacadavu Range, and arrangements made for restocking 10 acres. In Udamalpet, 15 acres cleared and nurseries established for planting out during the North-East monsoon *Madura*—Upper Palni pine plantation extended by five acres, 1,805 seedlings planted out, 7,200 casualties in 1906 plantation replaced in July and August 1909; 23½ acres planted 6′ × 6′ in May and June 1910 with 28,408 seedlings; nearly a lakh of seedlings in nursery ready for next year's plantation. *Tinnevelly*—64,428 palmyra nuts, 3,000 cashew seeds and 312 measures of miscellaneous seeds sown in 130 acres of Kuderimoliteri; the cashew seeds germinated, but the seedlings died; 75 per cent. of the palmyra nuts germinated; 522 new cuttings of *Odina Wodier* were put out and 380 casualties replaced.

Taungya plantations—South Canara.—181 acres kumaried and planted with 41,837 seedlings of teak, rosewood, *Hopea parviflora*, *Terminalia tomentosa* and *Pterocarpus Marsupium*. 9,312 established seedlings of 1907 and 1908 on 93 acres were paid for. *The Nilgiris*—five acres of the Benne tuckle areas were planted; 30 per cent. of the seedlings failed.

Cultural operations.—South Canara.—1,300 survivals out of 1,750 teak plants in Coupe I, Narimogar are doing well; Mulliar teak plants failed; in coppiced coupes seed was sown in 30,000 pits with satisfactory results; most of the sowing done by subordinates. *North Malabar*—431 acres teak and 61 acres miscellaneous plantation weeded at a cost of Rs. 1,047. *South Malabar*—25 acres of plantation on third-class soil in Pannengode and Valluvasheri were coppiced and replanted with 9,036 seedlings at a cost of Rs. 103; in future, such areas are to be under-planted, not coppiced; a nursery for next year's under-planting was formed at a cost of Rs. 150; third-class areas planted in previous years were weeded and 22,020 casualties replaced—Rs. 242; 773 acres regular plantation weeded—Rs. 1,723. *The Nilgiris*—Benhope and Kullar plantations were weeded and watered; guinea grass for Government bullocks was cut in the latter. *North Coimbatore*—ten bags of sandal seeds were dibbled in Kurumbur sandalwood coupe, Gutialatur; sandal seeds were also dibbled in pits from which trees were uprooted in Devarmalai Coupe, Burgur. The students of the Vernacular Training School dibbled rosewood and vengai seeds in selected areas at Geddesal. No results as yet. *Central Coimbatore*—seeds sown broadcast in coupes,

no germination observed; palmyra seeds dibbled in Virumandampalayam reserve did fairly well, those in Vellode tope did badly. On the covering of pits, in which prickly-pear was buried, seeds were sown with success; teak and rosewood in Odanthorai, margosa and tamarind in Sullipalayam. The small area sown last year at Sadivayal in Bolampatti No. II reserve was burnt, but teak, rosewood and vengai have since sent up fresh shoots. In Mettupalayam Range, ridge sowing along strip lines in coupes was attempted, but the ridges, being the most thornless paths, were used by the felling coolies and consequently the sowings failed. *Madura.*—Of Block XIX in Sarandangi, 100 acres were fenced with euphorbia cuttings and 58 acres ploughed and sown with 174 measures of seeds of manure-leaf-yielding shrubs, chiefly *Cassia auriculata* and *Tephrosia purpurea*, at a cost of Rs. 247; growth on the areas sown in 1904–1905 is now six feet high and ready for use; the outturn is half a cart-load of manure leaves per acre; as two cart-loads are required for every acre of paddy cultivation 3,60,000 acres of manure-leaf plantations would be required to meet the demand for manure leaves in the district; the outturn might be doubled in course of time, but, even then, the area required makes it out of the question to attempt to meet the whole demand from areas specially set aside for manure-leaf cultivation. The total area of the blocks under this form of cultivation is 3,039 acres. *Tinnevelly.*—3,168 measures of seeds sown and 13,806 seedlings planted in the coupes worked during the year in the ghat forests; results poor owing to want of ruin. *Tephrosia purpurea* and *Cassia auriculata* seeds were sown in Kaliavoor where they failed owing to drought and in Gangaikondan where they germinated fairly well; the total area sown was 42·acres, the amount of seed used being 1,410 measures.

Large quantities of seed, chiefly of timber-yielding species, were issued to other circles; *South Coimbatore* alone issued 256 sacks.

(c) Operations for the improvement of the growing stock.

20. *Improvement fellings—South Canara.*—780 acres. *The Nilgiris.*—400 acres in Block I Mudumalai, limited to removal of unsound, dead and dying trees. *Central Coimbatore.*—Burnt coppice cut back in three burnt coupes of Bolampatti Range. *South Coimbatore.*—136 acres in Punachi Working Circle. *Tinnevelly.*—Coupe VIII (*c*) Nadgani.

Thinnings—South Canara.—30 acres in Parappa teak plantation, cost Rs. 60. *South Malabar.*—584 acres teak plantation thinned and dead saplings taken out of 267 acres; cost including other works, Rs. 704. *North Coimbatore.*—Coppice shoots in Ennamangalam were thinned. *Tinnevelly.*—Coupes XI, XII Kalakad were partly thinned.

Fencing.—South Malabar—Wire fence round exotics in Aravillikava repaired, Rs. 37; mahogany avenue plants in Karimpoya fenced Rs. 10.

Creeper cutting—South Canara.—730 acres, Rs. 785. *North Malabar.*—3,000 acres in Kurichiyat cleared; cost Rs. 150. *South Malabar.*—1900 to 1903 plantations, Rs. 481; also much done by establishment free of charge in several districts; details of area or number of creepers cut not available.

Removal of parasites—South Malabar.—517 acres of plantations gave 2,595 cubic feet parasites, cost Rs. 183.

Pruning—South Malabar.—1908 plantation and 65 acres of 1907 plantation; Rs. 133.

Removal of noxious growth—North Malabar.—Lantana uprooted over 101½ acres of plantation; cost Rs. 370. *South Malabar.*—Undergrowth removed in 584 acres to facilitate marking for thinnings. *North Coimbatore.*—The removal of spiked sandalwood trees continued. *Central Coimbatore.*—2,064 acres cleared of prickly-pear, cost Rs. 6,740; various methods of preventing regrowth tried; the cleared area must be carefully watched for the next twelve months. *South Coimbatore.*—Lantana removed from waterfall plantation and Tekadi Compartment II; part of the work done by the young elephants.

(d) *Experiments.*

(1) *On species.*

21. *Swietenia Mahogani.*—In *South Canara*, a number of trees at Herur were wilfully cut down, offender undetected; 299 trees remain in various parts of the district and are doing fairly well. In *South Malabar*, 306 plants survive and are doing fairly well. In the *Nilgiris*, the seedlings referred to last year are being planted out in Benne tuckle areas. In *South Coimbatore*, seedlings put out at Mount Stuart did well at first, but died off during the hot weather.

Swietenia macrophylla is now established and reproducing freely in South Malabar; it has passed the experimental stage. The large tree in Chatamborai added $1\frac{1}{2}''$ to its girth during the year and yielded one pound of seed.

Ceara rubber and Para rubber.—No new sowings or plantings were made; trees in existence are being watched, but there is now no need for experimenting with these trees.

Landolphia florida and *Kicksia africana* continue to thrive in South Malabar.

Cedrela odorata continues to thrive at Nilambur and Coimbatore; it failed at Kodaikánal and Ootacamund; evidently the elevation was too great for it.

Bamboos of different kinds are doing fairly well in the West Coast districts.

Catalpa speciosa, a much recommended importation from America, has not proved a success though tried in various climates at various elevations.

Camphor is doing well at Coonoor and Kodaikánal; in time this may help to develop a local celluloid industry. Mr. J. S. Gamble, C.I.E., kindly sent out a further consignment of English seed—oak, beech, sycamore and horse-chestnut which have germinated fairly well on the Nilgiris, but the horse-chestnuts died after being transplanted.

Araucaria Cunninghamii (the hoop pine) seed was received from Australia and sown late in the year.

Except in parks and botanical gardens, sufficient attention cannot be paid to a few isolated exotic specimens; no plantations of new exotics on a large scale were undertaken except that the pine plantations on the Palnis were extended, and arrangements were made in the Nilgiris to form plantations of nine varieties of timber-yielding *Eucalyptus* at different elevations in order to determine which species is best suited to each locality.

(ii) *On other points.*

22. The Imperial Forest Economist from the Imperial Research Institute, Dehra Dun, visited the circle during the year to investigate the prospects of developing a bamboo paper pulp industry and some useful figures of the actual outturn of bamboo per acre were collected for him in the West Coast districts. Very little progress was made in the experiment to determine the upward growth of teak stems in *South Malabar*, owing to there being no District Forest Officer for that district for most of the year; the first series of observations was taken by Mr. Wimbush, prior to his transfer to Salem.

The proposal to carry out experiments to determine the effect of reafforestation on rainfall was negatived by Government.

Experimental areas to test the effect of firing on the grass and tree growth were maintained in *North* and *Central Coimbatore*; the area in *Madura* was found to have been badly selected and the experiment has to be commenced *de novo* in a new site. No definite results can be expected for another two years. Leaf silos were constructed in Madura, but were not opened during the year; the results will be available next year.

5. Exploitation.

(a) System of Management.

(i) *Major Forest Produce.*

(1) *Clear or Regeneration Fellings.*

23. In *South Canara*, 3·74 acres in Tannirbhavi reserve were sold standing for clear felling casuarina. In *South Malabar* 136·36 acres in Coupe III of Karimpoya reserve were clear felled for the formation of 1910 teak plantation. In *South*

Coimbatore 15 acres in Coupe XII of Amarampallam and 10 acres in Tunacadavu reserve near Karian-shola were felled for planting; bamboos were removed from two acres in the latter locality to help regeneration.

(2) *Selection Fellings.*

24. Selection fellings were carried out in Coupes VIII of Mudibare and VII of Someshwar covering 453 acres in *South Canara*; in 550 acres of coupe VII of Begur and 200 acres of coupe X of Chedleth range in *North Malabar*. In *South Malabar* 310 teak trees in block II of New Amarampalam were marked, felled and converted into 416 logs of 13,768·85 cubic feet. In the *Nilgiris* sandalwood trees which yielded 284 maunds were felled in Segur range. Spiked and dead sandalwood trees were removed from Bailur Working Circle in *Kollegal*. In *North Coimbatore* sandalwood trees were extracted from 11,976 acres in Gutialattur, Talamalai and Burgur Working Circles; 303 acres in Talamalai and two coupes (area not given) in Chickalli were felled for extraction of agricultural implements; bamboos were extracted from nine coupes of 20,869 acres. In *South Coimbatore*, selection fellings were completed in compartment XVI of Tekadi leased forest and carried out in part of XVII. Trees were selected and marked in Punachi Coupe II and a portion of the coupe was felled. In *Madura* 220 trees were marked and felled in Vannathiparai and Kumili forests.

(3) & (4) *Improvement and Coppice Fellings.*

25. *South Canara.*—Eight coupes covering 361 acres were coppiced in Coondapur Range. Eighty-six acres in Udipi Range were felled to supply fuel to 186 sandalwood oil stills. *North Malabar*—A coupe of 10 acres in Kanoth reserve was felled for supply of fuel to Tellicherry town. *South Malabar*—In the teak plantations 4,314 trees were removed in thinnings, also 75 dead, wind-blown or uprooted trees; teak and other saplings were felled to free the mahogany (*Swietenia macrophylla*) in Karimpoya plantation; 140 teak trees were coppiced in Valluvasheri 1888. The *Nilgiris*—Improvement felling was carried out over 400 acres containing chiefly teak in Mudumalai Range. Thirty acres of blue-gum plantation in Ootacamund and a similar area in Coonoor were coppiced for supply of fuel to the public and Wellington barracks. *North Coimbatore*—Nine fuel coupes were coppiced. *Central Coimbatore*—Fifteen fuel coupes were worked under coppice with standards. *South Coimbatore*—Improvement felling was carried out over 136 acres in Coupe I Punachi; 51 acres in Pollachi Range and 245 acres in Udumalpet were coppiced. *Madura*—32 coupes covering 3,311 acres and 15 tank-beds were coppiced. Details of areas coppiced are not reported by *Kollegal* and *Tinnevelly*.

(5) *Unregulated Fellings.*

26. In *South Canara*, 150 cinnamon oil stills were worked, the firewood required being felled on unreserved lands on payment. In the *Nilgiris*, the system of issuing permits for removal of inferior timber, fuel, bamboos, etc., for local consumption continued. In *Kollegal*, *North Coimbatore* and *Central Coimbatore*, small timber and bamboos, and brushwood and twigs from felled coupes were removed by permit holders.

(ii) *Minor Forest Produce.*

(1) *Miscellaneous Produce.*

27. Minor produce was generally leased out with the following exceptions. In *South Canara*, catechu was manufactured departmentally. In *Kollegal* and in parts of *North Malabar* and *North Coimbatore*, miscellaneous produce was collected departmentally. In *Madura*, thatch grass, thorns, manure leaves (except in two ranges) and stones in reserved forests were removed on permits.

(2) *Extraction of Fodder.*

28. The free removal of fodder grass from all reserves in *South Canara* continued; the ryots availed themselves of the privilege freely and no abuse was brought to notice. Permits were issued for the removal of grass in the *Nilgiris* and *Madura*. In *Tinnevelly*, grass is included in the leases for minor produce.

(3) *Hay making.*

29. In *South Canara*, about 10 tons of hay were manufactured in Coondapur Range at a cost of Rs. 60 and used for feeding Government bullocks. In the *Nilgiris*, about 13 tons of grass were collected for making hay on an experimental scale at Anaikatti farm. The experiment was subsequently dropped as it appeared that the attempt to supply Ootacamund with hay would result in loss One hundred and eighty two tons of hay were made in *Central Coimbatore*; with the last year's outturn there is a large quantity in stock. The quality of this hay was pronounced to be good on trial and analysis at the Agricultural farm at Coimbatore There was neither local demand for hay nor could good sales be effected at a cattle show at which an attempt was made to advertise it.

(4) *Grazing.*

30. Grazing was regulated by issue of permits either for individual forest, block or working circle, except in the Nilgiris where grazing blocks have not yet been formed. Enquiries are in progress in all districts regarding the grazing demand and the grazing possibility of the forests Goats are excluded from reserves in all districts except Madura. No means have yet been devised whereby the incidence of grazing can be diminished without an increase in cost to the cattle owners.

(*b*) OUTTURN AND SOURCES OF FOREST PRODUCE.

31. The outturn of timber and other produce collected by different agencies during the year is compared with that of the previous year in the following abstract:—

Agency of exploitation	Timber including sandalwood in cubic feet.		Fuel in cubic feet.		Bamboos in numbers.		Minor produce including grass and grazing in rupees.	
	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.
By Government agency ..	308,527	407,308	3,345,017	2,986,504	97,671	105,810	32,285	37,307
By purchasers	509,613	456,977	3,340,698	2,997,585	4,027,503	4,982,721	2,63,427	2,70,589
By right holders	77,566	92,635	188	106	960	2,775	828	1,081
By free grantees	8,418	14,023	22,243	3,645	15,025	2,400	1,065	820
Total ..	904,124	970,943	6,708,146	5,987,840	4,141,099	5,093,706	2,97,605	3,09,797

The quantities except those referring to removal by Government Agency, are arrived at by a rule of thumb conversion of rupees into cubic feet or number; no more correct method is possible without a very large checking establishment. The increase under timber was chiefly in *South Coimbatore*; the decrease under fuel was chiefly in *South Canara* and was due to an abuse of the permit system of removals from unreserved lands which has now been put a stop to; the increase under bamboos occurred in *Kollegal* and *South Coimbatore.*

(*c*) AGENCY OF EXPLOITATION.

(i) *By Departmental Agency.*

32. Apart from the items mentioned in paragraphs 27 and 29 the chief works done departmentally were:—

Major produce—South Canara.—Felling of one timber and three fuel coupes. *North Malabar*—Felling 6,427 cubic feet of timber, and carting 17,283 cubic feet by Government bullocks and 1,674 cubic feet by hired bullocks; extraction of 3,475 bamboos; felling of 10 acres for supply of fuel to Tellicherry town. *South Malabar*—Thinning of plantations, dragging timber to the river bank by elephants and buffaloes and floating to Beypore. The quantity of timber floated to Beypore was 54,408 cubic feet of teak logs and 9,741 cubic feet saplings, and 66 cubic feet of miscellaneous logs. *The Nilgiris*—The exploitation and transport of produce in the Nilgiri-Wynaad. *Kollegal and North Coimbatore*—Felling of fuel coupes and extraction of sandalwood and bamboos; fuel was sold to contractors in the coupes. *Central Coimbatore*—Felling of four fuel coupes for supply of fuel to the Coimbatore depot. *South Coimbatore*—Marking and felling timber in Tekadi and Punachi, dragging,

tramming and carting timber and felling fuel coupes; fuel felled in two of the coupes was sold to contractors in the forests. *Madura*—Six fuel coupes covering 1,364 acres were felled. *Tinnevelly*—Supply of fuel to the Tinnevelly jail. Whenever purchasers could be found areas to be felled were sold standing, and when departmental felling had to be resorted to, the felled produce was when possible sold in the forest. No fuel depots were established at the edge of the forest, as this entails double carting expenses and would result in a rise in the price of fuel. As regards timber no new depots were established, but the existing ones were maintained. In *Tinnevelly*, there are no departmental sale depots in towns; in *Madura*, there is one. In *South Coimbatore*, there are depots at Udamalpet, Pollachi and Anamalai which are much appreciated by the inhabitants, and must be maintained for some time. In *North Coimbatore* and *Kollegal*, most of the town fuel depots were leased to contractors.

Minor produce.—Seventeen tons of catechu were manufactured; the revenue realized was at an average rate of Rs. 678 per ton against Rs. 725 in the previous year, the fall being due to limited competition. The total outturn of minor produce was 434 tons against 277 tons in the last year; the increase was mainly due to a larger quantity of hay made in *Central Coimbatore.*

(ii) *By purchasers.*

33. In *South Canara* fuel coupes were sold standing and the depot at Mangalore was leased out to a contractor. In *North Malabar*, Coupe VII of Begur and IX of Chedleth were sold standing. In *South Malabar*, the clear felling of Coupe III of Karimpoya reserve was done on contract. In the *Nilgiris*, coppicing blue-gum plantations and transport of fuel were carried out on contract, the department maintaining only a few carts to regulate the rate for carting. Nine bamboo coupes in *North Coimbatore* and 12 fuel and 6 bamboo coupes in *Central Coimbatore* were sold standing. In *Madura*, 220 trees in Cumbum Range, 26 fuel coupes and the growth on 15 tank beds were sold standing. All coupes in *Tinnevelly* were sold standing and permits were issued for babul wood for agricultural implements.

(iii) *By Right holders and under Privileges.*

34. The estimated value of produce and grazing enjoyed was Rs. 37,809 against Rs. 31,590 in the previous year. Except in South Canara, no attempt has been made to assess the value of produce removed under the privilege allowed by the rules under section 26 of the Forest Act. The value of fuel consumed by Badagas in the Nilgiris on payment of a nominal fee of 1 rupee per house was considerable, but is not included in the valuation, as details are not available.

(iv) *Under free grants.*

35. The value of the forest produce granted free was Rs. 4,636 (Timber Rupees 3,579, fuel Rs. 206, bamboos Rs. 31 and minor produce Rs. 820) against Rs. 3,407 in the last year. Grants amounting to Rs. 2,120 were made to religious institutions and the balance was chiefly for rebuilding houses burnt by fire.

CHAPTER III.—FINANCIAL RESULTS.

36. The financial results of the year are compared with those of last year and with the previous quinquennial average in the following table:—

—	1909-1910.	1908-1909.	Average of preceding five years.
	RS.	RS.	RS.
Revenue	11,41,598	11,15,611	9,12,015
Expenditure—			
A.—Conservancy and Works including "Refunds."	6,30,631	5,36,155	5,12,890
B.—Establishments	3,98,620	3,64,993	3,10,962
Total expenditure ..	10,29,251	9,01,148	8,23,852
Surplus ..	1,12,347	2,14,463	88,163

The year's revenue rose by 2·3 per cent. and the expenditure by 14 per cent.; the net revenue was 9·8 per cent. of the gross receipts. Of the expenditure 38·4 per cent. was devoted to the upkeep and improvement of the forests, 35 per cent. to exploitation and 26·6 per cent. to miscellaneous items. Expenditure was abnormal owing to the payment of Rs. 1,02,951 for the acquisition of forest in the Attapadi valley in the interests of wet cultivation under the Bhaváni river. The value of timber and other produce at the sale depots at the close of the year amounted to Rs. 2,52,156 which was Rs. 1,08,912 less than it was at the commencement of the year. The outstanding balance at the close of the year was Rs. 1,10,105, of which Rs. 26,279 only fell due within the year.

The explanation of the more important differences between the figures of the year and those of the previous year is as follows :—

RECEIPTS.

(i) *By Departmental Agency.*

Timber — Rs. 39,688 — Due chiefly in *North Malabar* to the sale of only a small quantity of timber, the stock in hand having been sold in the previous year and in *South Coimbatore*, to a large stock of timber remaining unsold for want of good prices and to the slack demand for spokes and felloes.

Fuel + Rs. 9,850 — Due mainly to the increased demand from tile factories in *South Canara* and to the increase in the rates for supply of fuel to the Mills and sale to the public in *Madura.*

Sandalwood + Rs. 17,309 — Due to the realization of value of stock remaining unsold from the previous year at the home market.

(ii) *By Purchasers.*

Timber + Rs. 10,810 — Due chiefly to the increased price realized for sale of coupes standing in *North Malabar* and to better prices realized for timber in *Madura.*

Fuel + Rs. 11,269 — Due to the much better prices realized by sales of the tank-beds in *Madura* and the fuel coupes in *Tinnevelly.*

Grazing + Rs. 5,184 — Due chiefly to increased collection in *South Canara* on account of a large cattle fair held during the year and to the opening of a larger area for grazing in *Tinnevelly.*

EXPENDITURE.

A.—Conservancy and works.

The expenditure exceeded that of the previous year by Rs. 94,476 and was due chifly (*a*) to the purchase of Anaikatti farm buildings in the *Nilgiris*, (*b*) to the payment of compensation for the acquisition of lands in the Attapadi valley, (*c*) to the extension of pine plantations in *Madura*, and (*d*) to the eradication of prickly-pear from several coupes in *Central Coimbatore.*

B.—Establishment.

The increase of Rs. 33,627 was due mainly to (1) increments to Imperial Officers according to the time scale of pay, (2) posting of an officer to Central Coimbatore, (3) the appointment of a Special Deputy Collector with establishment for investigating certain forest questions in *Madura*, (4) the introduction of the revised scale of Deputy Rangers and Foresters, (5) the employment of the staff of Accountants and of establishments for two additional District Forest Offices throughout the year, (6) the entertainment of temporary establishments for sorting records in *Tinnevelly* and (7) increased touring expenses.

CHAPTER IV.—ADMINISTRATION.

37. Mr. F. A. Lodge was in charge of the circle throughout the year.

District Charges.—No new charges were formed. The Attapadi Blocks I to VI and the whole of Nilgiri Eastern slopes were transferred from South Malabar and North Coimbatore to Central Coimbatore and the Nilgiris respectively.

Range Charges.—No new ranges were sanctioned, but effect was given to the formation of two additional ranges (Sankaranarayana and Kasaragod) in South Canara, one (Burgur) in North Coimbatore and one (Punachi) in South Coimbatore sanctioned in previous years. It was, as usual, impossible to keep the ranges properly manned owing to the large number of Rangers absent on sick leave; as stated last year, a margin of Rangers over the number of ranges is absolutely necessary.

Establishment.—An increase in the subordinate forest establishment was sanctioned and by the new scale which was brought into effect from 1st November 1909, the number of Deputy Rangers and Foresters was raised to 35 and 62 respectively and 73 posts of guards were transferred from temporary to permanent establishment. The status of the District Forest Office, South Malabar, as regards pay of clerks, was raised, and the pay of the clerks on Rs. 15—1—20 and Rs. 15 per mensem in the Conservator's and District Forest Offices was raised to Rs. 20.

CONDUCT AND WORK.

38. *Executive establishment.*—Rangers Kuppusami Chetti, Littlewood, P. Venkatramanan, D'Sa and Garudachala Mudali are specially mentioned for good work and 13 Rangers are reported to have worked satisfactorily. One Ranger resigned, one was reduced temporarily, one suspended, one reverted to clerical establishment and the promotion of three was barred. The work of Deputy Rangers is reported to be generally satisfactory and one in charge of a range is specially mentioned for satisfactory work. Two Deputy Rangers were suspended, one of whom was also reduced for drunkenness, and one was reduced to the class of Forester. One Deputy Ranger was prosecuted for misappropriation and falsification of accounts but was acquitted. Cases of laziness and neglect of work had to be dealt with leniently, owing to there being no reserve of men to take the places of those who deserved suspension.

39. *Protective establishment*—The standard of efficiency and morality in this class continued to be low and much improvement cannot be hoped for until the staff can be more closely supervised by competent Rangers. Ninety-nine men were removed from service, 49 suspended, 14 reduced. Two Foresters and one guard were prosecuted for conniving at illicit fellings and two guards for extortion; the case against one guard was pending at the close of the year and the rest were acquitted.

40. *Ministerial establishment.*—The absence of prospects on the circle list of Head Clerks and Accountants coupled with heavy work and constant working overtime renders the recruitment of qualified and suitable candidates impossible. Work was satisfactory in all the offices except *Kollegal*, and *Central Coimbatore*; the backward state of the two excepted offices is due to inefficiency of clerks. The *Tinnevelly* office has improved and is working satisfactorily. One clerk in *Kollegal* and one in *North Coimbatore* resigned; one in *North Coimbatore* was removed from service for incompetency and one in *Tinnevelly* was reduced for bad work. The draftsman of the *Central Coimbatore* office was prosecuted for theft of records and instrument box and the prosecution was pending at the close of the year.

41. *Health of establishment and casualties.*—The health of the establishment was bad in all districts except *Kollegal*, *North Coimbatore*, *Madura* and *Tinnevelly*. The subordinates suffered as usual from malaria and jungle fever. Casualties were one Forester and one guard in *South Canara*, one guard *North Malabar*, one Ranger and one watcher *South Malabar*, one guard the *Nilgiris*, one guard and one watcher *Central Coimbatore* and one Deputy Ranger and one guard *South Coimbatore*. One Ranger in *South Coimbatore* committed suicide, and one watcher was murdered in *Madura* while impounding cattle found illicitly grazing; the murderers are reported to have been convicted.

42. *Relations between Revenue and Forest Officials* continued to be cordial. The reports of the *Nilgiris*, *Central* and *South Coimbatore* do not furnish information regarding the attendance of Forest Officers at jamabandi; such attendance is not required in *South Malabar* and was carried out in other districts except *Kollegal* and

Tinnevelly; in *Kollegal* the jamabandi programme was not received by the District Forest Officer and in *Tinnevelly* questions on forest matters were settled as they arose. In *North Coimbatore*, the Collector as a result of his enquiry into the complaint against the distribution of grazing blocks on the Burgur hills amalgamated three such blocks into one; a report on this has since been called for by the Board. No important points were raised in other districts.

43. *Service books* are maintained in all districts; in the *Nilgiris* they are verified to the close of the calendar year, in *Malabar*, *Kollegal*, *North* and *South Coimbatore* to the close of the financial year, in *South Canara* to the close of the forest year, in *Central Coimbatore* and *Madura* they are "posted" and "verified", the date up to which they have been posted or verified not reported; in *Tinnevelly* they are verified up to date.

44. *Tours of the Forest Member.*—No record of tours is contained in the district reports. The Hon'ble Mr. W. O. Horne visited the Anamalai forests in *South Coimbatore.*

45. *Conservator's Inspections.*—The Conservator inspected all the District Forest offices and the forests of *South Canara*, the *Nilgiris* and *Central Coimbatore* and part of the forests of the remaining districts except *Kollegal* and spent 186 days in camp during the year.

46. *Touring of District Forest Officers.*—All the District Forest Officers except the *Nilgiris* (exempted), *South Malabar*, *Central* and *South Coimbatore* spent more than six months in camp. The short touring in *South Malabar* was due to the charge being held by the District Forest Officers of the Nilgiris and North Malabar for about five months and in *Central Coimbatore* to a separate Officer being posted only from the latter part of October; in *South Coimbatore* the deficiency amounted only to three days.

47. *Inspection of Range Offices.*—All the Range Offices except those newly formed during the year, and depots were inspected.

48. *Audit of accounts of District Forest Offices.*—The Local Fund Audit establishment audited the accounts of all the offices except *Kollegal* and the results were reported to be generally satisfactory.

49. *Imperial Forest College, Dehra Dun.*—One nominee to the Provincial Service and one Deputy Ranger were deputed for training; two Government students returned from the College with Rangers' certificates with honors.

50. *Vernacular Training School for Guards and Foresters.*—The second session of this school was held during the year in *North Coimbatore* with 32 students (six Foresters and 26 guards). One Forester resigned, one guard was removed from the school and one Forester and three guards deserted and were dismissed. Instructions were given according to the approved programme. Of the 26 students who remained at the close of the session, 20 secured first class and 5 second class certificates; one guard who was absent for half the course was not given a certificate. The Instructors are reported to have done useful work.

51. *Work and services of superior officers.*—With the exception of *Tinnevelly*, Collectors have not remarked on the work of their District Forest Officers. *Mr. R. W. Ashe*, Collector of Tinnevelly, remarks "The little I have seen of Mr. Latham's work supports the high opinion of his energy and devotion to his work which Mr. Davidson expressed to me." The Conservator endorses this opinion. Messrs. P. M. Lushington, Bryant and Cox worked with their usual energy throughout the year; Mr. Richmond returned from leave in October and did well with two heavy charges and the Vernacular Training School; Mr. Foulkes was hampered by ill-health for part of the year and was in charge of both North and South Malabar; Mr. Fischer took much trouble over arranging preliminaries for the local Forest College; Mr. Barry has shown interest in improving the sylvicultural conditions of the South Canara forests but did not take kindly to the work of checking the South Canara-Mysore boundary; Mr. Wimbush did good work during the few months he was in charge of South Malabar; the work of the Imperial staff was distinctly satisfactory. The Provincial officers also worked well.

CHAPTER V.—GENERAL.

52. *Realization of revenue from the usufruct of toddy-yielding trees, etc.*—The subject is not mentioned in the reports of *North Malabar* and the *Nilgiris*; amounts realized in *South Malabar*, *Kollegal*, *South Coimbatore* and *Madura* were very small. In *Central Coimbatore*, such trees are found in four reserved forests; their usufruct in three was leased out for a decade and in the fourth for a year; the amounts of the leases are not given in the district report. The revenue collected in *South Canara* and *Tinnevelly* was Rs. 3,579 and Rs. 3,442, respectively, against Rs. 3,369 and Rs. 3,355 in the last year.

53. *Measures adopted to encourage the growth of manure-leaf-yielding trees and shrubs.*—The only districts in which action was taken in this matter are *Madura* and *Tinnevelly*; the results of operations in these districts are detailed in paragraph 19 *supra*. No measures are required in other districts where the required supply is met from private forests and unreserved lands. It is not known what steps the Agricultural Department has taken to encourage cultivators to grow leaf manure on their own lands.

54. *Supply of forest produce to meet the wants of the people.*—In *South Canara*, a portion of the Baindur reserve was as usual thrown open for free removal of grass and leaves and the privilege of free removal of thatching grass used also occasionally as fodder from all reserves was continued, the ryots are said to have availed themselves freely of the privilege. The local demand in *Malabar* was met from unreserved lands and private forests. In the *Nilgiris* permits were issued for small timber, fodder and minor produce; the Badagas were as usual given permits for fuel for an annual fee of Re. 1 per house, but the value of produce consumed must be at least Rs. 50 per house. In *Kollegal* and *North Coimbatore* small timber and agricultural implements were sold from depots, fuel felled departmentally was disposed of in forests to contractors who as one of the conditions of sale were to open depots and retail at fixed rates, and permits were also issued for removal of brushwood from felled coupes; village fuel coupes were also opened in two localities in *Kollegal* and felling was done departmentally and permits issued to consumers, but the demand is reported to be very small. Fuel was supplied to the public in *South Coimbatore* from depots and through contractors. Coupes were opened in different places in *Madura* to meet the requirements of the neighbouring villages for fuel and small timber for agricultural implements; the depot in *Madura* supplied adequately the increasing demand for fuel in the town. The sale of timber for agricultural implements at seigniorage rates from babul areas was continued in *Tinnevelly*.

RULES UNDER THE FOREST ACT.

55. (*a*) *Timber Transit rules.*—These rules are reported to have worked satisfactorily in *South Canara*, *Central* and *South Coimbatore* and *Madura*. They were sanctioned for *Kollegal* and *North Coimbatore* and not brought into force till after the close of the year.

56. (*b*) *Rules under section* 26 *of the Forest Act.*—No reference is made to the working of these rules in *Kollegal* and *Central* and *South Coimbatore*. In *Madura* the people are said to be still ignorant of the extent of the privileges allowed by the rules. In the other districts the rules worked satisfactorily. The areas of unreserved lands under the control of the Forest Department were 490 acres in *North Malabar*, 863 acres in *South Malabar*, 278 acres in *Central Coimbatore* and 300 acres in *Madura* and the lands containing sandal growth in *North Coimbatore* and tank-beds in *Tinnevelly* (extent of both not reported).

57. (*c*) *Other rules.*—Rules for the regulation of shooting in *Kollegal* and *North Coimbatore* were sanctioned during the year. The working of the sandalwood rules in these two districts has not been mentioned, but they appear to have worked smoothly.

58. *Hill Tribes.*—Leases (number and extent not reported) granted free of rent in *Kollegal* in previous years to hill tribes for cultivation in reserved forests and eleven similar leases covering 281 acres in *North Coimbatore* were continued.

59. *Cultivation in reserved forests.*—In *South Canara* tenant-at-will leases covering 15 acres for paddy cultivation on an annual rent of Rs. 17-4-11 were granted. Four acres in old Amarampalam reserve in *South Malabar* were leased out for a similar purpose on an annual rent of Rs. 10. Seven leases covering 47 acres were continued to the Sholagars in *North Coimbatore* on payment of rent (amount not reported). Leases according to the revised rules for all the estates on the Anamalais in *South Coimbatore* were issued to the lessees for signature and their registration was pending.

LIVE AND DEAD STOCK.

60. (*a*) *Elephants.*—Elephant capturing operations were carried out in *North Malabar*, *South Malabar* and *South Coimbatore*, and the numbers captured were 12, 1 and 1, respectively; one was born in captivity in *North Malabar*. Thus the total number of elephants in the circle increased to 105. Of these, two (one newly captured calf and the other born in captivity) died, one escaped and joined a herd of wild elephants and was shot accidentally in the endeavour to recapture it, one was presented to the Madras Corporation and five were sold, leaving 96 at the close of the year. There was no mortality among the old elephants and the condition of all elephants was satisfactory. Two mahouts who were injured by a wild tusker while attempting to recapture the escaped elephant above referred to were granted a reward of Rs. 10 each. Eight mahouts whose elephants were not on the sick list for more than three days at a time or more than twelve days in all in the previous year were granted rewards in the shape of from one to three rupees worth of grain.

(*b*) *Bullocks and buffaloes.*—Of the 130½ pairs of bullocks at the commencement of the year, 6 pairs died and 14 pairs were sold, one pair was purchased, making a balance of 111½ pairs. Except in one case, all deaths were due to old age. Three buffaloes died and three were sold, ten pairs were purchased for Rs. 986 ; there were 34 buffaloes at the close of the year.

(*c*) *Special Veterinary Inspector.*—Mr. F. X. Mascarenhas visited all the stations where there is live-stock ; he inspected also the elephants in Coorg and instructed the Veterinary Assistant as to their feeding and treatment. Numerous minor operations for abscess, tumour and sinus on elephants and bullocks were performed, and attention was paid to the feeding and housing of live-stock.

(*d*) *Inventory of valuable stock.*—Stock registers are reported to have been maintained and verified in all districts except *Kollegal* in which no mention is made of this subject.

61. *Rain gauges.*—No mention is made of these in the *Nilgiris*. The readings of the gauges in other districts are reported to have been properly recorded and the results are given in Appendix J.

62. *The Gass Forest Museum at Coimbatore.*—The museum was open to the public as usual ; owing to the continuance of plague at Coimbatore the hours of admission to visitors was changed to 3–5 P.M. for about 7½ months from 5th August 1909. There were 7,362 visitors against 6,339 in the previous year. Six hundred and twenty-five specimens were contributed to the museum, and several ornaments and implements of jungle tribes were presented by the Jeypore State. The museum is now overcrowded and an extension is much needed. The museum garden was maintained and Rs. 162 realised by sale of fruit, flowers, vegetables and plants.

63. *The Bryant Park Reserve at Kodaikánal.*—The park was opened by the Hon'ble Mr. C. J. Weir, I.C.S., on the 6th September 1909 and has been much improved during the year ; the nurseries in the park are well stocked with pine seedlings to be used in extending the pine plantations on the downs.

64. *Suits.*—In Tinnevelly, the Kuttalam waterfall appeal was pending and the other suit referred to in the last report was decided in favour of Government.

CONSERVATOR'S OFFICE,
SOUTHERN CIRCLE,
Coimbatore, 30th September 1910.

F. A. LODGE,
Conservator of Forests,
Southern Circle.

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APPENDICES.

Appendix A.—District areas and Forest reserves (1909–1910).

District.	(a) Total area excluding feudatory and tributary States.	(b) Area excluding zamindari, whole inam villages and minor inams in ryotwari tracts.	(b) Occupied area.	Particulars of remaining area (columns 3—4).			Reserved forests and reserved lands.			Percentage of column 10 to column 3.	Percentage of column 10 to column 7.
				(b) Unoccupied cultivable, unculti-vable and forest areas.	(a) Areas for which returns are not available.	Total of columns 5 and 6.	Reserved forests under Act V of 1882.	Reserved lands.	Total of reserves (columns 8 and 9).		
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.		
Ganjám	5,356,224	1,609,462	415,082	708,325	486,055	1,194,380	383,067	72	383,139	23·80	32·08
Vizagapatam	11,022,478	849,907	199,699	650,208	..	650,208	190,862	2,625	193,487	22·88	29·76
Gódávari	3,669,383	1,848,091	580,765	1,257,986	9,340	1,267,326	534,438	47,955	582,393	31·51	45·95
Kistna	3,784,842	1,675,918	1,019,683	635,003	21,232	656,235	178,231	12,229	190,460	11·36	29·02
Kurnool	4,808,960	4,100,605	1,314,375	2,786,230	..	2,786,230	1,689,701	..	1,689,701	41·21	60·64
Bellary	3,646,039	2,980,358	1,700,179	1,280,179	..	1,280,179	399,447	41,792	441,239	14·80	34·47
Anantapur	3,556,083	3,025,409	1,263,260	1,762,149	..	1,762,149	341,936	18,527	360,463	11·91	20·46
Total ..	35,844,009	16,089,750	6,493,043	9,080,080	516,627	9,596,707	3,717,682	(d) 123,200	3,840,882	23·87	40·02
Central Circle.											
Cuddapah	5,582,739	4,871,596	1,449,215	3,422,381	..	3,422,381	1,502,136	620	1,502,756	30·85	43·91
Nellore	5,097,300	2,317,494	946,810	1,370,684	..	1,370,684	471,724	..	471,724	20·35	34·42
Chingleput	1,971,041	1,305,741	667,321	638,420	..	638,420	136,566	67	136,633	10·46	21·40
North Arcot	4,721,846	2,509,479	915,694	1,593,785	..	1,593,785	824,827	1,642	826,469	32·93	51·86
South Arcot	3,339,520	2,991,972	1,721,950	1,270,022	..	1,270,022	426,274	..	426,274	14·25	33·56
Salem	4,818,982	3,576,091	1,505,337	2,070,754	..	2,070,754	1,024,346	33,080	1,057,426	29·57	51·06
Trichinopoly	2,330,509	1,713,442	1,125,408	578,034	..	578,034	179,150	3,286	182,436	10·65	31·56
Tanjore	2,375,387	1,584,828	1,150,250	434,578	..	434,578	12,461	358	12,819	·81	2·95
Guntúr	3,670,374	2,878,904	1,810,657	1,068,247	..	1,068,247	521,239	8	521,247	18·11	48·79
Total ..	33,907,698	23,749,547	11,302,642	12,446,905	..	12,446,905	5,098,723	39,061	5,137,784	21·63	41·28
Southern Circle.											
South Canara	2,573,389	2,573,389	762,555	1,810,834	2,054	1,812,888	558,083	72,873	630,956	24·52	34·80
Malabar	3,708,321	3,690,019	1,353,395	2,336,624	..	2,336,624	(c) 271,003	(c) 41,430	312,433	10·84	17·12
The Nilgiris	646,221	653,784	192,330	461,454	..	461,454	(c) 308,682	54,882	363,564	48·92	69·32
Coimbatore	4,989,867	4,557,986	2,512,163	2,045,823	..	2,045,823	(c) 1,353,362	(c) 205,917	1,559,279	33·24	74·07
Madura	5,568,896	2,078,880	1,142,747	936,133	..	936,133	426,503	..	426,503	20·51	45·56
Tinnevelly	3,448,922	2,282,802	1,498,359	784,443	..	784,443	279,901	1,062	280,963	12·30	35·81
Total ..	20,935,616	15,836,860	7,461,549	8,375,311	2,054	8,377,365	3,197,534	376,164	3,573,698	22·56	42·66
Grand Total ..	90,687,323	55,676,157	25,257,234	29,902,296	518,681	30,420,977	12,013,939	5,38,425	12,552,364	22·55	41·26

(a) Area by professional survey. (b) Area according to village papers. (c) Corrected in the Board's office.

(d) Excludes 5,401 acres in the Parlákimedi Maliahs notified under section 26 of the Forest Act.

Appendix B.—Reserved forests in square miles.

District.	Up to 1908–1909.	During 1908–1909.	During 1909–1910.	Total.
1	2	3	4	5
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	598	(a)—	..	598
Vizagapatam	298	..	(a) +	298
Gódávari, Upper	428	..	..	428
Do. Lower	407	..	..	407
Kistna	278	(a)+	..	278
Kurnool, East	1,479	— 1	..	1,478
Do. West	1,079	+ 72	(b) + 11	1,162
Bellary	624	(a)+	(a) +	624
Anantapur	529	(a)+	6	535
Total	5,720	+ 71	+ 17	5,808
Central Circle.				
Cuddapah, North	735	..	..	735
Do. East	1,029	54	..	1,083
Do. South	529	..	..	529
Nellore	737	..	..	737
Chingleput	214	(b) — 2	1	213
Arcot, North	1,290	..	(d) — 1	1,289
Do. South	663	..	(b) + 4 (b) — 1	666
Salem, North	931	..	..	931
Do. South	670	..	..	670
Trichinopoly	313	(d) — 1	(b) — 41 (b) + 9	280
Tanjore	19	..	..	19
Guntúr	814	..	..	814
Total	7,944	51	— 29	7.966
Southern Circle.				
South Canara	847	23	2	872
Malabar, North	261	(c)	..	261
Do. South	196	..	(f) — 33	163
The Nilgiris	438	..	(h) + 44	482
Kollegal	..	472	1 (i) — 26	447
Coimbatore, North	1,333	(e) — 472 (f) — 16 (g) — 8	(h) — 44 (i) + 110	90
Do. Central	..	16 258	(f) + 33	307
Do. South	707	(f) — 2 58 (g) + 8	..	457
Madura	666	..	..	666
Tinnevelly	437	.. (c)	(c)	437
Total	4,885	23	+ 87	4,995
Grand Total	18,549	145	75	18,769

(a) Less than half a square mile.
(b) By correct computation of area.
(c) Below one square mile.
(d) Disafforested.
(e) Transferred to Kollegal.
(f) Transferred to Coimbatore (Central).
(g) Do. to Coimbatore (South).
(h) Do. to the Nilgiris
(i) Rectification of area due to adoption of Survey of India figures.

APPENDIX C.—Particulars of balance of lands under settlement.

District.	Forest settlement.					
	Total number and area of blocks under settlement up to the end of 1909–1910.		Total number and area of blocks constituted finally as reserved forests up to the end of 1909–1910.		Balance at the end of 1909–1910.	
	Number.	Area.	Number.	Area.	Number.	Area.
1	2	3	4	5	6	7
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	57	598	56	598	1	(d) ..
Vizagapatam	54	302	53	298	1	4
Gódávari, Upper	29	428	29	428	..	..
Do. Lower	44	482	43	407	1	75
Kistna	75	(e) 278	75	278	..	..
Kurnool, East	38	1,478	38	1,478	..	..
Do. West	64	1,162	64	1,162	..	..
Bellary	169	(a) 627	167	624	2	3
Anantapur	111	(e) 547	106	535	5	12
Total ..	641	5,902	631	5,808	10	(b) 94
Central Circle.						
Cuddapah, North	212	735	212	735	..	..
Do. East		1,083		1,083	..	..
Do. South		529		529	..	..
Nellore	226	737	226	737	..	..
Chingleput	199	214 (f) — 1	197	213	2	(d)
Arcot, North	192	1,292 (f) — 1	190	1,289	2	2
Do. South	157	663 (c) + 3	157	666	..	..
Salem, North	89	977	88	931	1	46
Do. South	92	676	90	670	2	6
Trichinopoly	123	317 (c) — 32	119	280	4	5
Tanjore	16	20	15	19	1	1
Guntúr	180	814	179	814	1	(d) ..
Total ..	1,486	8,026	1,473	7,966	13	60
Southern Circle.						
South Canara	176	878	171	872	5	6
Malabar, North	29	262	28	261	1	1
Do. South	6	208	5	163	1	45
The Nilgiris	435	482	432	482	3	(d) ..
Kollegal	13	705	10	447	3	258
Coimbatore, North	* 20	919	* 16	903	4	16
Do. Central	43	354	40	307	3	47
Do. South	17	457	17	457	..	..
Madura	150	666	150	666	..	..
Tinnevelly	88	439	72	437	16	2
Total ..	977	5,370	941	4,995	36	375
Grand Total ..	3,104	19,298	3,045	18,769	59	529

* One block shown in excess last year deducted.

(a) Excludes 63 square miles, Sandur leased forests.
(b) As per report this is 93, difference due to rounding of figures; the actual figure being 93·52.
(c) Correct computation of areas—*vide* foot-note to form 65.
(d) Below one square mile.
(e) Excludes reserve lands under section 26. (Kistna 19 square miles and Anantapur 17 square miles).
(f) Revision of area on account of disafforestation of small areas.

Appendix C.—Particulars of balance of lands under settlement—*cont.*

District.	Settled and reported on.											
	Notified under section 16 during 1909–1910, but reservation effected only after 30th June 1910.		With Board or Government awaiting publication of notification under section 16.		Returned by the Board for revision and remaining either with Collector, District Forest-officer or Forest Settlement-officer.		Total settled and reported on.		Settled but not reported on.		Settlement proceeding.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	8	9	10	11	12	13	14	15	16	17	18	19
Northern Circle.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Ganjám	..	..	..	..	..	..	..	..	..	..	1	(a) ..
Vizagapatam ..	..	..	1	4	..	..	1	4	..	..	..	..
Gódávari, Upper ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	..	..	..	..	1	75	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	1	2	..	..	1	2	..	..	1	1
Anantapur ..	..	..	1	1	..	..	1	1	1	(a) ..	3	11
Total ..	..	..	3	7	..	..	3	7	2	75	5	(b) 12
Central Circle.												
Cuddapah, North ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	1	(a)	..	..	..	..	1	(a)	..	..	1	(a)
Arcot, North ..	1	1	..	..	..	..	1	1	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..
Salem, North ..	..	..	..	..	..	..	..	..	1	46	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	1	* 2	1	1	2	3	..	..	2	2
Tanjore	..	..	..	..	..	..	..	..	1	1	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	1	(a)
Total ..	2	1	1	2	1	1	4	4	2	47	7	9
Southern Circle.												
South Canara ..	1	4	1	(a) ..	1	(a) ..	3	4	..	..	2	2
Malabar, North ..	..	..	..	..	..	..	..	..	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	1	45	..	..
The Nilgiris	..	..	3	(a) ..	..	..	3	(a)	..	..	..	..
Kollegal	..	..	..	..	..	..	..	..	1	246	2	12
Coimbatore, North.	..	..	1	* 16	..	..	1	16	..	..	3	(a) ..
Do. Central.	..	..	..	..	..	..	..	..	2	47	1	(a) ..
Tinnevelly ..	..	..	1	(a) ..	..	..	1	(a)	5	1	10	1
Total ..	1	4	6	16	1	..	8	20	9	339	19	16
Grand Total ..	3	5	10	25	2	1	15	31	13	461	31	37

(a) Below one square mile.
(b) As per report this is 93, difference due to rounding of figures; the actual figure being 92·52.
* Notified under section 16 subsequent to the close of the year.

Appendix C.—Particulars of balance of lands under settlement—*cont.*

District.	Of lands notified under section 4.																															
	1891–92.		1894–95.		1896–97.		1897–98.		1898–99.		1899–00.		1900–01.		1901–02.		1902–03.		1903–04.		1904–05.		1905–06.		1906–07.		1907–08.		1908–1909.		1909–1910.	
	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.	Number.	Area.
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Northern Circle.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.		S. M.
Ganjám ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(*a*)
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	..	..	..	..	..	..
Gódávari, Upper.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. Lower.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kistna	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	1	..	..
Anantapur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3	11
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	75	..	..	..	..	..	..	..	..	1	4	1	2	3	2	4	(*b*)11
Central Circle.																																
Cuddapah, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(*a*)	1	(*a*)
Arcot, North ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	1
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Salem, North ..	..	..	..	..	..	..	..	..	..	..	..	..	1	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6
Trichinopoly ..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	2
Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..
Guntúr ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	(*a*)
Total ..	..	..	..	..	..	..	..	..	1	2	..	..	1	46	..	..	..	..	..	..	..	..	1	1	..	..	2	2	1	(*a*)	7	9
Southern Circle.																																
South Canara ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	1	2	..	..	2	(*a*)	1	(*a*)
Malabar, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Do. South.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	45	..	..	..	..	..	..	..	..	..	..	..	..
The Nilgiris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	(*a*)	..	..	..	..	..	..
Kollegal ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	12	..	..	1	(*a*)
Coimbatore, North.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	16	..	..	..	..	..	..	..	..	1	(*a*)	..	..	..	..	2	(*a*)
Coimbatore, Central.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	47	1	(*a*)	..	..
Tinnevelly ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	(*a*)	4	(*a*)	10	(*a*)
Total ..	1	246	..	..	..	..	..	..	..	..	..	..	..	..	2	17	..	..	1	45	..	..	1	4	5	2	4	59	7	..	15	1
Grand Total ..	1	246	..	..	..	..	..	..	1	2	..	..	1	46	3	92	..	..	1	45	..	..	2	5	6	6	7	63	11	2	26	21

(*a*) Below one square mile.
(*b*) As per report this is 93, difference due to rounding of figures ; the actual figure being 92·52.

APPENDIX D.—Causes of delay in the submission of final notifications of Forest reserves.

District.	Notified under section 16 during 1909–1910, but with effect only after 30th June 1910.	With Board or Government awaiting publication of final notification under section 16.	Returned by the Board to Collectors for revision.	Pending check and revision by Collectors and not submitted to the Board.	Awaiting disposal of appeals.	Awaiting expiry of appeal time.	Awaiting inspection and settlement of claims by the Forest officers.	Awaiting enquiry into claims by Forest Settlement-officer after issue of proclamation under section 6.	Total.
1	2	3	4	5	6	7	8	9	10
Northern Circle.									
Ganjám	..	..	..	..	..	..	..	1	1
Vizagapatam	..	1	..	..	..	..	..	..	1
Gódávari, Upper ..	..	..	..	..	..	..	..	..	..
Do. Lower ..	..	..	..	..	1	..	..	..	1
Kistna	..	..	..	..	..	..	..	..	..
Kurnool, East	..	..	..	..	..	..	..	..	..
Do. West	..	..	..	..	..	..	..	..	..
Bellary	..	1	..	..	..	..	..	1	2
Anantapur	..	1	..	..	1	..	..	3	5
Total ..	..	3	..	..	2	..	..	5	10
Central Circle.									
Cuddapah, North ..	..	..	..	..	..	..	..	..	..
Do. East	..	..	..	..	..	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..
Nellore	..	..	..	..	..	..	..	..	..
Chingleput	1	..	..	..	..	..	..	1	2
Arcot, North	1	..	..	..	..	..	..	1	2
Do. South	..	..	..	..	..	..	..	..	..
Salem, North	..	..	..	..	1	..	..	..	1
Do. South	..	..	..	..	..	..	2	..	2
Trichinopoly .. .	..	1	1	..	..	..	..	2	4
Tanjore	..	..	..	1	..	..	..	..	1
Guntúr	..	.	..	..	..	..	..	1	1
Total ..	2	1	1	1	1	..	2	5	13
Southern Circle.									
South Canara	1	1	1	..	..	..	2	..	5
Malabar, North	..	..	..	..	..	..	1	..	1
Do. South	..	..	..	..	1	..	..	..	1
The Nilgiris	..	3	..	..	..	..	..	..	3
Kollegal	..	..	..	1	..	..	2	..	3
Coimbatore, North ..	..	1	..	..	..	..	3	..	4
Do. Central ..	..	..	..	..	2	..	1	..	3
Tinnevelly	..	1	..	4	..	1	10	..	16
Total ..	1	6	1	5	3	1	19	..	36
Grand total ..	3	10	2	6	6	1	21	10	59

APPENDIX E.—Reserved Lands not under Settlement in square miles.

District.	Up to 1908–1909.	Added during 1908–1909.	Added during 1909–1910.	Total.	Transferred to settlement.				Balance.
					Up to 1908–1909.	During 1908–1909.	During 1909–1910.	Total.	
1	2	3	4	5	6	7	8	9	10
Northern Circle.	SQ. MLS	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Ganjám	598	(b) — (a)	+ (a)	598	598	..	+ (a)	598	..
Vizagapatam ..	345	(c) — 43	..	302	302	..	+ (a)	302	..
Gódávari, Upper ..	428	..	..	428	428	..	..	428	..
Do. Lower ..	482	..	..	482	482	..	..	482	..
Kistna ..	278	(e) + 16	(e) + 3	297	278	..	..	278	(e) 19
Kurnool, East ..	1,479	(b) — 1	..	1,478	1,479	(b)— 1	..	1,478	..
Do. West ..	1,151	..	(d) + 11	1,162	1,151	..	(g) + 11	1,162	
Bellary	689	+ 1	..	690	626	+ 1	..	627	(f) 63
Anantapur ..	547	+ (a)	+ 17	564	534	+ 1	+ 12	547	(e) 17
Total ..	5,997	— 27	+ 31	6,001	5,878	+ 1	+ 23	5,902	99
Central Circle.									
Cuddapah, North ..	735	..	1	736	735	..	..	735	1
Do. East ..	1,089	(h) — 6	..	1,083	1,089	(h) — 6	..	1,083	..
Do. South ..	529	..	..	529	529	..	..	529	..
Nellore	737	..	..	737	737	..	..	737	..
Chingleput ..	214	{ 2 (d) — 2	(a) (k) — 1 }	213	214	{ 2 (d) — 2	} (k) — 1	213	..
Arcot, North ..	1,291	..	{ 2 (b) — 1 }	1,292	1,291	..	{ 1 (b) — 1 }	1,291	1
Do. South ..	663	..	(d) + 3	666	663	..	(d) + 3	666	..
Salem, North ..	977	..	..	977	977	..	-	977	..
Do. South ..	670	..	6	676	670	..	6	676	..
Trichinopoly ..	318	{ (b) — 1 (d) — 2	2 (d) — 32 }	285	318	{ (b) — 1 (d) — 2	2 (d) — 32 }	285	..
Tanjore	20	..		20	19	1	..	20	..
Guntúr	814	..	(a)	814	814	..	(a)	814	..
Total ..	8,057	— 9	— 20	8,028	8,056	— 8	— 22	8,026	2
Southern Circle.									
South Canara ..	1,041	(l) — 1	(m) — 54	986	879	(l) — 1	..	878	108
Malabar, North ..	261	..	1	262	261	..	1	262	..
Do. South ..	307	..	(n) — 80	227	288	..	(n) — 80	208	(f) 19
The Nilgiris ..	524	..	(o) + 44	568	438	..	(o) + 44	482 {	(q) 10 (f) 76
Kollegal	731	..	(r) — 26	705	731	..	(r) — 26	705	..
Coimbatore, North.	854	..	{ (s) — 1 (o) — 44 (r) + 110 }	919	854	..	{ (s) — 1 (o) — 44 (r) + 110 }	919	..
Do. Central.	274	..	(n) + 80	354	274	..	(n) + 80	354	
Do. South.	457	..	..	457	457	..	..	457	..
Madura	666	..	..	666	666	..	..	666	..
Tinnevelly ..	438	..	1	439	438	..	(p) 1	439	..
Total ..	5,553	— 1	31	5,583	5,286	— 1	85	5,370	213
Grand total ..	19,607	— 37	42	19,612	19,220	— 8	86	19,298	314

(a) Below one square mile.
(b) Disafforested.
(c) Previous error of calculation rectified.
(d) Correct computation of area.
(e) Reserved lands notified under section 26.
(f) Leased forests.
(g) Not actually transferred to settlement but added as per (d) *supra*.
(h) Excluded on account of alteration made in the boundary by the Board.
(k) Revision of area on account of disafforestation of small blocks.
(l) Excluded at settlement.
(m) Transferred to unreserved lands and deducted owing to wrong computation.
(n) Transferred from South Malabar to Central Coimbatore.
(o) Transferred from North Coimbatore to the Nilgiris.
(p) Inserted in the Board's Office.
(q) Area of small plantations notified under section 26 of the Forest Act.
(r) Rectification of area due to adoption of survey of India figures.
(s) Excluded by renotification.

APPENDIX F.—Abstract of District Reports in regard to the maintenance of maps in accordance with the provisions of section 80 of the Forest Code.

Northern Circle.

Ganjám.—The maps of 3 sâl coupes, 3 fuel coupes, 5 bamboo coupes, 3 massifs, 4 blocks and 12 reserves, 6 unreserves, 1 khandam, 1 ranger's quarters and 1 range and 1 district were prepared during the year.

Vizagapatam.—A district reference map, range maps of the 3 ranges (taluk maps with reserves marked thereon), and printed sketch-maps of reserved forests so far as they have been obtained from the Superintendent, Revenue Survey, Madras.

Gódávari, Upper.—The district map (1″ = 4 miles) showing all the reserves has been maintained as also range forest maps (1″=1 mile). Separate maps for each reserve were also kept.

Gódávari, Lower.—The district map (1″ = 4 miles); showing all the reserves, etc., has been maintained as also range forest maps (1″ = 1mile). Separate maps for each reserve were also maintained.

Kistna.—The district, range and reserve maps have been maintained as usual.

Kurnool, East.—The district, range and reserve maps were maintained as usual.

Kurnool, West.—Maps referred to in previous years reports have been maintained.

Bellary.—The district, range and reserve maps were maintained as usual.

Anantapur.—The district, range, reserve and working-plan maps have been maintained as usual.

Central Circle.

Cuddapah, North.—The district and range reference maps are maintained. Out of 82 reserved forests, maps for 72 have been prepared and of these 37 were published by the Survey of India and 35 by the Madras Survey and there remain 10 maps to be done by the latter. Working-plan maps continue to be maintained.

Cuddapah, East.—Map for the Seshachellam timber working circle and beat maps of the Pullampet range and part of Badvel range were prepared besides plans for combined guards' and watchers' quarters. Posting and preparing maps in connection with the boundary discrepancy sketches received from revision Survey Party were attended to.

Cuddapah, South.—The district and range forest reference maps are maintained. Out of 66 reserved forests, maps for 24 were published by the Survey of India and the remainder by the Madras Survey of which 2 still remain to be done.

Nellore.—As reported last year no range reference maps are maintained, but the reserves and boundaries of the ranges are marked on the taluk maps.

Chingleput.—Copies of working-plan maps were prepared and the district forest reference map was posted up. Map for the proposed Senkundram extension reserve was prepared besides other miscellaneous maps.

North Arcot.—No fresh maps were prepared. The district and range reference maps are posted and maintained.

South Arcot.—The district reference maps are posted and maintained. Maps for 20 reserves reported as pending in the Madras Survey office last year, have been received during the year. Manuscript copies of maps of 12 reserves are pending in the Survey office and maps for 6 more reserves were ready for despatch.

Salem, North.—The district and range forest reference maps and working-plan maps are maintained. There are Survey of India maps for 86 reserved forests and Madras Survey maps for three.

Salem, South.—The reference, reserve and working-plan maps are maintained.

Trichinopoly.—The District Forest reference map and taluk (Range) maps were posted and maintained. Maps of certain reserves and working circles were prepared besides plans for certain buildings. Final maps of two reserves were sent to the Madras Survey office and maps for 44 were received and for 8 more remain still to be sent.

Tanjore.—The district and range forest reference maps and working-plan maps are maintained. Reserve maps with topographical features and admitted rights were prepared.

Guntúr.—The district and range maps are maintained as usual.

Southern Circle.

District reference and reserve maps were maintained and posted and quinquennial maps for the last annual report prepared in all districts. In South Malabar a revised district reference map, outlines of maps for reserved forests and reserved lands for recording fires, and maps of Edacode 1846, 1848, 1850 and 1852, showing bench marks and levels taken on teak trees were prepared. Some of the settlement maps in the Nilgiris were lost and it is reported that the loss is of little importance as the boundaries of forests follow the boundaries of fields marked by cadastral survey on village maps. Working-plan maps in Kollegal, North Coimbatore, South Canara, South Coimbatore and Tinnevelly and fire-protection maps in the first two districts were posted.

APPENDIX G.—Statement showing the area of Reserved Forests for which final maps have been prepared.

District.	Area of reserved forests.	Area of reserved forests for which final maps have been prepared.	Remarks.
Northern Circle.	SQ. MILES.	SQ. MILES.	
Ganjám	598	598	
Vizagapatam	298	193	
Gódávari, Upper	428	428	
Do. Lower	407	407	
Kistna	278	137	
Kurnool, East	1,478	* 1,452	* Maps for the remaining area of 26 square miles are due from Survey of India office.
Do. West	1,162	777	
Bellary	624	563	
Anantapur	535	535	
Total ..	5,808	5,090	
Central Circle.			
Cuddapah, North	735	735	
Do. East	1,083	1,083	
Do. South	529	529	
Nellore	737	735	
Chingleput	213	213	
Arcot, North	1,289	1,274	
Do. South	666	666	
Salem, North	931	† 977	† Includes 46 square miles of reserved lands pending notification under section 16.
Do. South	670	631	
Trichinopoly	280	‡ 280	‡ Final maps for 8 blocks aggregating 8 square miles have yet to be sent to the Survey office but they are reported to be settlement maps showing only the boundaries and admitted rights.
Tanjore	19	19	
Guntúr	814	614	
Total ..	7,966	7,756	
Southern Circle.			
Canara, South	872	872	
Malabar, North	261	261	In spite of the remarks made last year "final notification" maps have again been shown as final maps in some districts. Full details are now being called for.
Do. South	163	11	
The Nilgiris	482	482	
Kollegal	447	417	
Coimbatore, North	903	884	
Do. Central	307	205	
Do. South	457	457	
Madura	666	666	
Tinnevelly	437	416	
Total ..	4,995	4,671	
Grand Total ..	18,769	17,517	

Appendix H.

District.	A. Fires caused by accident or through carelessness in burning fire lines.		B. Fires entering the forests by crossing exterior fire traces.		C. Fires beginning inside the reserves or fire-traced areas — Owing to carelessness or accident							
					By workmen employed in the forests, by purchasers of forest produce, and by hay-cutters.		By villages, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.	Number of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern Circle.												
Ganjám	14	3,124	17	1,947	1	1	12	550	..	..	..	..
Vizágapatam	1	20	17	1,300	..	..	5	1,550	..	..	..	..
Gódávari, Upper	4	1,651	20	119,695	..	..	2	2,150	..	..	..	..
Do. Lower	..	..	9	1,100	8	645	77	2,957	..	..	..	..
Kistna	..	..	7	1,058	..	..	..	..	..	..	..	..
Kurnool, East	9	14,246	7	17,602	1	26	4	9,702	1	246	..	..
Do. West	7	1,373	12	12,717	3	1	10	9,376	..	..	..	..
Bellary	2	150	4	2,404	..	..	4	1,175	..	..	..	..
Anantapur	1	..	..	..	..	..	1	300	..	..	..	..
Total ..	38	20,564	93	157,823	13	673	115	27,760	1	246	..	..
Total for 1908–1909 ..	14	2,168	19	1,726	8	356	42	3,797	6	110	..	..
Central Circle.												
Cuddapah, North ..	2	30	8	(a)14,879	2	76	..	..	..	..	..	..
Do. East ..	..	..	..	..	..	..	7	1,430	..	..	..	..
Do. South ..	3	250	..	..	..	..	..	..	..	..	..	..
Nellore	..	..	1	320	..	..	1	2	..	..	..	..
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..
Arcot, North	..	..	13	1,727	..	..	27	2,268	2	41	1	30
Do. South	1	6	5	252	1	28	..	..	..	..	..	..
Salem, North	2	205	1	15	3	64	5	195	..	..	..	..
Do. South	..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	(b) 1	..	..	..	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	8	491	28	17,193	6	168	41	3,895	2	41	1	30
Total for 1908-1909 ..	2	5	18	4,174	11	1,056	(c) 25	1,403	..	..	..	..
Southern Circle.												
Canara, South	21	689	25	789	4	279	114	2,610	..	..	..	..
Malabar, North	3	825	1	13,100	..	..	1	50	..	..	..	..
Do. South * ..	3	2	1	10	..	..	1	1	..	..	..	..
The Nilgiris *	..	..	.	..	..	..	8	109	..	..	..	..
Kollegal	6	3,780	..	..	1	10	2	300	..	..	..	..
Coimbatore, North ..	2	503	1	300	..	..	11	6,890	..	..	..	..
Do. Central ..	..	..	4	323	2	40	8	297	..	..	..	..
Do. South † ..	..	..	4	149	1	200	6	314	..	..	..	..
Madura *	..	..	2	25	..	..	1	..	..	..	..	..
Tinnevelly	6	195	8	573	3	41	5	56	..	..	8	1,723
Total ..	41	5,994	46	15,269	11	570	157	10,627	..	..	8	1,723
Total for 1908–1909 ..	68	3,389	34	5,309	23	2,698	93	13,377	3	66	1	1,050
Grand Total, Presidency, for 1909–1910.	87	27,049	167	190,285	30	1,411	313	42,282	3	287	9	1,753
Grand Total, Presidency, for 1908–1909.	84	5,562	71	11,209	42	4,110	167	18,577	9	176	1	1,050

* Includes the number of fires in the areas under general protection not shown in form No. 72.

† Fires in the areas under general protection are not reported.

(a) The Collector's figure has been reduced by 1 acre to arrive at the total in column 25.

(b) Less than 1 acre.

(c) Corrected in the Board's office.

APPENDIX H.—*cont.*

District.	C. Fires beginning inside the reserves or fire-traced areas—*cont.* By intentional firing. In order to obtain new grass. Number of fires.	In order to obtain new grass. Area burnt in acres.	In order to turn out game or to reduce cover. Number of fires.	In order to turn out game or to reduce cover. Area burnt in acres.	Maliciously fired. Number of fires.	Maliciously fired. Area burnt in acres.	Total. Number of fires.	Total. Area burnt in acres.	Causes unknown. Number of fires.	Causes unknown. Area burnt in acres.	Total of A, B and C and causes unknown. Number of fires.	Total of A, B and C and causes unknown. Area burnt in acres.
	14	15	16	17	18	19	20	21	22	23	24	25
Northern Circle.												ACS.
Ganjám	..	..	..	.	3	183	16	734	33	3,907	80	9,712
Vizagapatam	..	.	3	1,212	3	57	11	2,819	35	19,265	64	23,404
Gódávari, Upper ..	..	..	..	.	1	7,000	3	9,150	10	9,567	37	140,063
Do. Lower ..	..	..	2	600	.	..	87	4,202	4	250	100	5,552
Kistna, ...	..	..	..	..	..	..	..	..	.	..	7	1,058
Kurnool East	1	2.960	1	80	7	8,209	15	21,223	11	12,960	42	66,031
Do. West	6	3,000	17	85,662	4	57	40	98,096	70	244,396	129	356,582
Bellary	9	9,429	..	..	1	90	14	10,694	..		20	13,248
Anantapur	..	..	..	..	3	470	4	770	23	3,300	28	4,070
Total ..	16	15,389	23	87,554	22	16,066	190	147,688	186	293,645	507	619,720
Total for 1908-1909 ..	1	160	7	1,740	12	7,850	76	14,013	31	14,295	140	32,202
Central Circle.												
Cuddapah, North ..	3	320	7	12,860	1	5,340	13	18,596	29	9,318	52	42,823
Do. East ..	55	59,112	..	..	..	..	62	60,542	29	24,350	91	84,892
Do. South ..	..	..	..	..	..	..	..	..	23	794	26	(*b*) 1,044
Nellore	..	..	..	..	..	..	1	2	..	..	2	322
Chingleput	..	..	..	..	2	72	2	72	..	..	2	72
Arcot, North	95	5,833	..	..	8	853	133	9,025	77	2,726	223	13,478
Do. South	..	..	..	..	..	..	1	28	30	1,440	37	(*c*) 1,726
Salem, North	4	650	..	..	4	110	16	1,019	42	3,033	61	(*d*) 4,272
Do. South	..	..	..	..	5	10	5	10	120	9,905	125	(*e*) 9,915
Trichinopoly	..	..	..	..	1	10	2	10	(*a*) 5	280	7	290
Tanjore	..	..	.	..	..	..	..	.	..	..	..	..
Guntúr	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	157	65,915	7	12,860	21	6,395	235	89,304	355	51,846	626	158,834
Total for 1908-1909 ..	23	4,566	1	4	21	1,108	82	8,137	107	21,866	209	34,182
Southern Circle.												
Canara South	27	347	5	878	8	525	158	4,639	63	2.721	267	8,838
Malabar, North ..	..	..	..	..	..	..	1	50	..	..	5	13,975
Do. South *	..	..	..	..	1	not reported	2	1	..	..	6	13
The Nilgiris *	12	9,251	..	..	..	..	20	9,360	..	..	20	9,360
Kollegal	..	..	2	4,025	2	440	7	4,775	31	51,362	44	59,917
Coimbatore, North ..	5	975	..	..	3	1,410	19	9,275	10	4,556	32	14,634
Do. Central ..	..	..	..	..	2	470	12	807	22	2,198	38	3,328
Do. South† ..	3	285	..	..	..	..	10	799	1	6	15	954
Madura *	..	..	..	..	1	..	2	..	26	5,959	30	5,984
Tinnevelly	7	1,059	1	110	27	19,160	51	22,149	..		65	22,917
Total ..	54	11.917	8	5,013	44	22,005	282	51,855	153	66,802	522	139,920
Total for 1908-1909 ..	35	4,669	9	528	42	10,984	206	33,372	117	14,626	425	56,696
Grand Total, Presidency, for 1909-1910.	227	93,221	38	105,427	87	44,466	707	288,847	694	412,293	1,655	918,474
Grand Total, Presidency, for 1908-1909.	59	9,395	17	2,272	75	19,942	364	55,522	255	50,787	774	123,080

* Includes the number of fires in the areas under general protection not shown in form No. 72.

† Fires in the areas under general protection are not reported.

(*a*) Area in two cases is less than an acre.

(*b*) Includes 105 acres burnt in unprotected areas and 358 acres in areas in which burning of grassy strips were proposed.

(*c*) Includes area burnt in unprotected blocks.

(*d*) Includes 2,402 acres burnt in unprotected blocks.

(*e*) Includes areas burnt under other systems.

APPENDIX I.—Comparative statement of impounded cattle.

Districts.	From open forests.		From closed forests.				Total.		Average for three years ending 1908–1909.
			Holding permits for open forests.	Having no permits.	Holding permits for open forests.	Having no permits.			
	1908–1909.	1909–1910.	1908–1909.		1909–1910.		1908–1909.	1909–1910.	
Northern Circle.									
Ganjám	679	3,448	..	1,185	..	450	1,864	3,898	2,687
Vizagapatam ..	1,581	2,555	..	667	..	68	2,248	2,623	2,496
Gódávari, Upper ..	27	13	..	..	..	..	27	13	292
Do. Lower ..	883	1,154	49	207	..	135	1,139	1,289	638
Kistna	676	1,591	515	2,269	639	1,306	3,460	3,536	3,736
Kurnool, East ..	7,873	5 543	..	502	..	3,652	8,375	9,195	9,384
Do. West ..	20,118	9,308	..	1,633	..	4,249	21,751	13,557	17,137
Bellary	16,238	12,287	3,718	3,979	2,178	2,727	23,935	17,192	19,617
Anantapur	9,579	9,780	..	1,301	..	1,490	10,886	11,270	10,691
Total ..	57,654	45,679	4,282	11,743	2,817	14,077	73,679	62,573	66,678
Central Circle.									
Cuddapah, North.	5,014	2,580	..	..	294	2,151	5,014	5,025	5,167
Do. East ..	3,679	4,756	..	2,846	298	2,788	6,525	7,842	5,023
Do. South ..	3,809	4,827	..	1,734	.	2,156	5,543	6,983	14,001
Nellore	14,039	11,306	760	4,826	1,486	6,964	19,625	19,756	7,453
Chingleput ..	4,502	5,932	414	1,805	276	828	6,721	7,036	4,347
Arcot, North ..	12,815	15,305	403	6,605	906	6,256	19,823	22,467	18,721
Do. South ..	16,117	15,809	243	762	17	888	17,122	16,714	19,085
Salem, North ..	3,207	1,737	696	905	164	1,536	4,808	3,437	4,403
Do. South ..	3,710	2,281	197	838	401	1,503	4,745	4,185	6,123
Trichinopoly ..	7,774	2,894	125	1,121	118	4,080	9,020	7,092	7,595
Tanjore	291	97	203	164	385	421	658	903	809
Guntúr	8,496	11,268	2,710	3,358	3,792	6,636	14,564	21,696	14,997
Total ..	83,453	78,792	5,751	24,964	8,137	36,207	114,168	123,136	107,724
Southern Circle.									
Canara, South ..	1,140	924	..	10	6	40	1,150	970	1,271
Malabar, North ..	18	43	..	15	..	8	33	51	78
Do. South ..	..	..	..	198	..	189	198	189	130
The Nilgiris ..	166	587	..	176	39	7	342	633	567
Kollegal	1,837	2,923	..	170	23	..	2,007	2,946	
Coimbatore, North.	3,022	5,515	..	971	23	908	3,993	6,446	
Do. Central.	1,479	757	..	2,293	..	1,689	3,772	2,446	7,994
Do. South.	204	699	..	86	89	27	290	815	
Madura	6,272	3,579	..	2,401	1,343	1,021	8,673	5,943	13,112
Tinnevelly ..	782	929	1,593	3,122	1,747	4,037	5,497	6,713	5,650
Total ..	14,920	15,956	1,593	9,442	3,270	7,926	25,955	27,152	28,802
Grand Total ..	156,027	140,427	11,626	46,149	14,224	58,210	213,802	212,861	203,204

ANNUAL FORM NO. 65. *Forest Department, Madras Presidency.*

AREA of reserved forests and reserved lands during 1909–1910.

District.	Area of reserved forests.						Area of reserved lands.						Total area of reserved forests and reserved lands.
	Area on 1st July 1909.		Added during the year.	Excluded during the year.	Area on 30th June 1910.		Area on 1st July 1909.		Added during the year.	Excluded during the year.	Area on 30th June 1910.		
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Northern Circle.													SQ. MILS.
Ganjám	383,067	598	..	..	383,067	598	..	.	72	..	72	..	598
Vizagapatam	190,700	298	162	..	190,862	298	2,842	4	..	(a) 217	2,625	4	302
Gódávari, Upper	273,746	428	..	..	273,746	428	..	..	..	..	..	..	428
Do. Lower	260,692	407	..	..	260,692	407	47,955	75	..	..	47,955	75	482
Kistna	178,231	278	..	..	178,231	278	10,075	16	(b) 2,304	(b) 150	12,229	19	297
Kurnool, East	945,864	1,478	..	..	945,864	1,478	..	..	..	..	..	..	1,478
Do. West	736,810	1,151	(c) 7,027	..	743,837	1,162	..	..	..	.	..	..	1,162
Bellary	399,439	624	8	..	399,447	624	41,868	66	..	76	41,792	66	690
Anantapur	338,315	529	3,621	..	341,936	535	11,277	18	10,871	3,621	(d) 18,527	29	564
Total	3,706,864	5,791	10,818	..	3,717,682	5,808	114,017	179	13,247	4,064	(j)123,200	193	6,001
Central Circle.													
Cuddapah, North	470,359	735	..	..	470,359	735	..	..	620	..	620	1	736
Do. East	693,397	1,083	..	..	693,397	1,083	..	..	..	..	..	..	1,083
Do. South	338,380	529	..	..	338,380	529	..	..	..	..	..	..	529
Nellore	471,829	737	.	(e) 105	471,724	737	..	..	..	..	..	..	737
Chingleput	135,503	212	1,107	(e) 44	136,566	213	1,116	2	58	(f) 1,107	67	..	213
Arcot, North	825,338	1,290	..	(c) 511	824,827	1,289	792	1	850	..	1,642	3	1,292
Do. South	424,636	663	(g) 2,535	(g) 882 (e) 15	426,274	666	..	..	.	..	..	..	666
Salem, North	595,300	931	..	..	595,300	931	29,290	46	..	..	29,290	46	977
Do. South	429,046	670	..	..	429,046	670	..	.	3,790	..	3,790	6	676
Trichinopoly	199,375	312	(h) 5,743	(h) 25,968	179,150	280	1,761	3	1,525	..	3,286	5	285
Tanjore	12,461	19	..	..	12,461	19	353	1	..	..	358	1	20
Guntúr	521,239	814	..	..	521,239	814	..	..	8	..	8	..	814
Total	5,116,863	7,995	9,385	27,525	5,098,723	7,966	33,317	53	6,851	1,107	39,061	62	8,028
Southern Circle.													
Canara, South	556,817	870	1,266	..	558,083	872	108,977	170	3	36,107	72,873	114	986
Malabar, North	166,898	261	..	6	166,892	261	21	..	483	..	504	1	262
Do. South	125,551	196	..	21,440	104,111	163	71,256	111	..	30,330	40,926	64	227
The Nilgiris	280,176	438	28,506	..	308,682	482	55,237	86	11	366	54,882	86	568
Kollegal	301,982	472	653	16,277	286,358	447	165,714	259	2	653	165,063	258	705
Coimbatore, North	535,980	837	69,992	28,140	577,832	903	10,574	17	271	334	10,511	16	919
Do. Central	175,217	274	21,440	..	196,657	307	13	..	30,330	..	30,343	47	354
Do. South	292,515	457	..	..	292,515	457	..	..	..	..	..	..	457
Madura	426,503	666	..	..	426,503	666	..	..	..	..	..	..	666
Tinnevelly	279,740	437	162	1	279,901	437	868	1	356	162	1,062	2	439
Total	3,141,379	4,908	122,019	65,864	3,197,534	(i) 4,995	412,660	644	31,456	67,952	376,164	588	5,583
Grand Total	11,965,106	18,694	142,222	93,389	12,013,939	18,769	559,994	876	51,554	73,123	538,425	843	19,612

(a) Transferred to reserved forests 162 acres and rectification of previous error 55 acres.
(b) Under section 26.
(c) Correct computation of area.
(d) Of which 7,376 acres under section 4 and 11,151 acres under section 26.
(e) Disafforested.
(f) Transferred to reserved forest.
(g) Corrections due to correct computation of areas when working-plans were prepared.
(h) Due to the adoption of areas obtained by more accurate computation from resurvey village maps of the reserves of Vaiyampatti range and of areas furnished by the Survey of India Party of the reserves on the Pachamalais, Musiri range.
(i) The area ofr eserved forests entered in column 6, viz., 3,197,534 acres, works to 4,996 square miles and not 4,995 square miles.
(j) Excludes 5,401 acres in the Parlakimedi maliahs notified under section 26 of the Forest Act.

Area of reserved forests and reserved lands during 1909–1910.

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	Northern Circle.							
	Reserved forests.							
Ganjám.	Area notified in previous years..	383,067	598	..	..	383,067	598	
	Reserved lands not transferred to reserved forests during the year.							
Ganjám.	Chandragiri enclosure (Pudrangi).	..	..	72	..	72	..	No. 89, dated 4th February 1910.
	Reserved forests.							
Vizagapatam.	Area notified in previous years..	190,700	298	..	..	190,700	298	
	Barnakonda extension No. II ..	..	..	162	..	162	..	No. 209, dated 25th May 1909.
	Total ..	190,700	298	162	..	190,862	298	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years..	2,842	4	..	..	2,842	4	
	Barnakonda extension No. II ..	..	..	..	162	162	..	Transferred to reserved forests.
	Samaralli reserve ..	..	..	..	*55	55	..	
	Total deduction ..	..	..	..	217	217	..	
	Net area ..	2,842	4	..	217	2,625	4	
	Reserved forests.							
Gódávari, Upper.	Area notified in previous years.	273,746	428	..	..	273,746	428	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Gódávari, Lower.	Area notified in previous years ..	260,692	407	..	..	260,692	407	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	47,955	75	..	..	47,955	75	
	Reserved forests.							
Kistna..	Area notified in previous years..	178,231	278	..	..	178,231	278	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years.	10,075	15·74	..	..	10,075	15·74	Notified under section 26.
	Added—Kummarapurugupalam.	..	..	1,855	..	1,855	3·60	
	Perupalam, block I	..	..	39	..	39		
	Do. II	..	..	45	..	45		
	Gopuvanipalem extension No. III.	..	..	159	..	159		
	Thallapalem	..		206	..	206		
	Total ..	10,075	15·74	2,304	..	12,379	19·34	
	Excluded—Portion in Kaldindi block I.	..	..	..	150	150	0·23	
	Net area ..	10,075	15·74 or 16	2,304	150	12,229	19·11 or 19	
	Reserved forests.							
Kurnool, East.	Area notified in previous years ..	945,864	1,478	..	..	945,864	1,478	
	Reserved lands not transferred to reserved forests during the year—Nil.							

* Rectification of previous error.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Range and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	NORTHERN CIRCLE—*cont.*							
	Reserved forests.							
Kurnool, West.	Area notified in previous years.	736,810	1,151	..	..	736,810	1,151	
	Added—							
	Yeperlapad	..	..	(a) 3,967·20	..	3,967·20	6·20 or 6 sq. mls.	
	South Dhone	..	..	(a) 3,059·40	..	3,059·40	4·78 or 5 sq. mls.	
	Total ..	736,810	1,151	7,026·60 or 7,027	..	743,836·60 or 743,837	1,162	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Bellary.	Area notified in previous years ..	399,439	624	..	..	399,439	624	
	Survey No. 14, Inam land. } Kontanahalli village.	..	..	8	..	8	..	No. 301, dated 7th July 1909.
	Total ..	399,439	624	8	..	399,447	624	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	41,868	66	..	..	41,868	66	
	Excluded—							
	Portion of moka plantation.	..	..	..	68	68	..	Excluded during settlement.
	Kontanahalli	..	..	..	8	8	..	Transferred to reserved forests.
	Total deduction ..	..	..	..	76	76	..	
	Net area ..	41,868	66	..	76	41,792	66	
	Reserved forests.							
Anantapur.	Area notified in previous years ..	338,315	529	..	..	338,315	529	
	Added—							
	Nyalakota extension ..	..	..	232	..	232	..	No. 353, dated 13th August 1909.
	Yerrakonda extension No. I.	..	..	3,389	..	3,389	6	No. 56, dated 15th January 1910.
	Total ..	338,315	529	3,621	..	341,936	535	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	11,277	18	..	..	11,277	18	
	Added—							
	Vengalammacheruvu reserve extension No. I.	..	..	57	..	57	..	No. 472, dated 16th November 1909. } Notified under section 4.
	Budikonda extension No. I.	..	..	375	..	375	1	No. 324, dated 24th May 1910. } Notified under section 4.
	Bhadrapur extension ..	..	..	360	..	360	1	Notified by the Collector under section 26.
	Janneavulapalli extension ..	..	..	96	..	96	..	
	Marutla extension.. ..	..	..	321	..	321	..	
	Murdarlapalli reserve ..	..	..	3,957	..	3,957	6	
	Palavoy reserve	..	..	705	..	705	1	
	Bhogasamudram	..	..	5,000	..	5,000	8	
	Total ..	11,277	18	10,871	..	22,148	35	
	Excluded—							
	Nyalakota extension ..	..	..	..	232	232	..	Transferred to Reserved forests.
	Yerrakonda extension No. I.	..	..	..	3,389	3,389	6	
	Total area excluded ..	..	..	..	3,621	3,621	6	
	Net area ..	11,277	18	10,871	3,621	18,527	29	

(a) Error corrected by recomputation of area.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Range and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	CENTRAL CIRCLE.							
	Reserved forests.							
Cuddapah, North.	Area notified in previous years..	470,359	735	..	..	470,359	735	
	Reserved lands not transferred to reserved forests during the year.							
	Pothipaud Tope Extension ..	..	..	620	..	620	1	Notified under section 26.
	Reserved forests.							
Cuddapah, East.	Area notified in previous years..	693,397	1,083	..	..	693,397	1,083	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Cuddapah, South.	Area notified in previous years ..	338,380	529	..	..	338,380	529	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Nellore ..	Area notified in previous years..	471,829	737	..	105	471,724	737	This is due to the area of that portion of the Vavveru reserve disafforested in 1903 having been found to be 105·04 acres more than what was taken into account by notification under section 24. A revised notification excluding the whole extent was published during the year—*vide* Government Order, No. 1556, dated 11th May 1910, in Board's Proceedings, Forest No. 183, dated 2nd June 1910.
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Chingleput.	Area notified in previous years ..	135,503	212	..	* 44	135,459	213	* Disafforestation of Melmeyyur block—Government Order, No. 452, Revenue, dated 10th February 1910.
	Oragadam Extension III ..	..	..	(a) 17	..	17		
	Guindy Park	..	..	(b) 1,081	..	1,081		
	Salur Extension I	..	..	(c) 9	..	9		
	Total ..	135,503	212	1,107	44	136,566	213	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	1,116	2	..	1,107	9	..	Transferred to reserved forests. Notification No. 27, dated 27th December 1909.
	Senkundram Extension No. II ..	..	..	58	..	58	..	
	Total ..	1,116	2	58	1,107	67	..	
	Reserved forests.							
Arcot, North.	Area notified in previous years ..	825,338	1,290	..	† 511	824,827	1,289	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	792	1	..	..	792	3	
	Airala Extension..	..	..	850	..	850		No. 382, dated 26th August 1909.
	Total ..	792	1	850	..	1,642	3	

(a) No. 428, dated 2nd October 1909. 0·6 cent. of Koliyalam block disafforested. Notification No. 68, dated 5th February 1910.
(b) No. 157, dated 22nd March 1910.
(c) No. 217, dated 29th March 1910.

† Disafforested { 240 acres from Pakala A reserved forest to provide a settlement for Koravar gang.
271 acres from Nedungal reserved forest to exclude patta and inam lands wrongly included at settlement.

Area of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	CENTRAL CIRCLE—*cont.*							
	Reserved forests.							
Arcot, South.	Area notified in previous years ..	424,636	663	(*a*) 2,535	(*a*) 882 (*b*) 15	426,274	666	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Salem, North.	Area notified in previous years ..	595,300	931	..	..	595,300	931	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	29,290	46	..	..	29,290	46	
	Reserved forests.							
Salem, South.	Area notified in previous years ..	429,046	670	..	..	429,046	670	
	Reserved lands not transferred to reserved forests during the year.							
	Arana	..	..	1,903	..	1,903	3	No. 363, dated 7th July 1909.
	Tirtagiri	..	..	1,887	..	1,887	3	
	Total ..	..	..	3,790	..	3,790	6	
	Reserved forests.							
Trichinopoly.	Area notified in previous years ..	199,375	312	(*c*) 5,743	(*c*) 25,968	179,150	280	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	1,761	3	..	..	1,761	3	
	Palamalai extension	..	..	892	..	892	1	No. 342, dated 7th August 1909.
	V. Kanapadi extension	..	..	633	..	633	1	Do.
	Total ..	1,761	3	1,525	..	3,286	5	
	Reserved forests.							
Tanjore.	Area notified in previous years ..	12,461	19	..	..	12,461	1	
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	358	1	..	..	358	1	
	Reserved forests.							
Guntúr.	Area notified in previous years ..	521,239	814	..	..	521,239	814	
	Reserved lands not transferred to reserved forests during the year.							
	Gokonakonda extension I ..	..	..	8	..	8	..	No. 232, dated 1st June 1909.

(*a*) Due to correct computation of areas when working-plans of Vadakuttu Working Circle and of Kallakurchi Range were prepared.
(*b*) Disafforested in Talankoda Reserved forest—*vide* Notification No. 93, dated 3rd February 1910.
(*c*) These alterations are due to the correct computation of areas of reserves in Vaiyampatti and Musiri Ranges.

AREA of reserved forests and reserved lands during 1909–1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer
	SOUTHERN CIRCLE.							
	Reserved forests.							
South Canara.	UDIPI.							
	Andar extension I	..	..	10	..	10	..	No. 28, dated 27th December 1909.
	UPPINANGADI.							
	Shiradi Sisla extension No. III ..	..	..	342	..	342	..	No. 14, dated 20th December 1909.
	Do. No. IV ..	..	..	143	..	143	..	No. 14, dated 20th December 1909.
	PUTHUR.							
	Ballery	..	..	684	..	684	..	No. 485, dated 13th November 1909.
	Kilarmale extension No. VII ..	..	..	87	..	87	..	No. 164, dated 22nd March 1910.
	Area notified in previous years ..	556,817	..	..	..	556,817	..	....
	Total ..	556,817	870	1,266	..	558,083	872	
	Reserved lands not transferred to reserved forests during the year.							
	PUTHUR.							
	Kilarmale extension No. VIII ..	..	..	3	..	3	..	No. 16, dated 13th December 1909.
	Area notified in previous years ..	108,977	..	..	(*a*) 1,266 (*b*) 215 (*c*) 34,626	72,870	..	....
	Total ..	108,977	170	3	36,107	72,873	114	
	Reserved forests.							
Malabar, North.	Area notified in previous years ..	166,898	261	..	(*d*) 6	166,892	261	No. 55, dated 10th January 1910.
	Reserved lands not transferred to reserved forests during the year.							
	BEGUR.							
	Ladysmith Additions I and II.	..	..	483	..	483	..	No. 92, dated 4th February 1910.
	Area notified in previous years ..	21	..	..	..	21	..	
	Total ..	21	..	483	..	504	1	
	Reserved forests.							
Malabar, South.	Area notified in previous years ..	125,551	196	..	(*e*) 21,440	104,111	163	No. 215, dated 24th March 1910.
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	71,256	111	..	(*e*) 30,330	40,926	64	No. 215, dated 24th March 1910.
	Reserved forests.							
Nilgiris, The.	COONOOR.							
	Kunshola Addition No. I ..	..	..	17	..	17	..	No. 397, dated 9th September 1909.
	OOTACAMUND.							
	Kokothorai	..	..	349	..	349	..	No. 465, dated 5th November 1909.
	Area notified in previous years ..	280,176	..	(*f*) 28,140	(*g*) ..	308,316	..	Disafforested in notification No. 491, dated 2nd December 1909.
	Total ..	280,176	438	28,506	..	308,682	482	

(*a*) Transferred to reserved forests.
(*b*) Excluded at settlement.
(*c*) Transferred to unreserved lands and deducted owing to inaccurate computation.
(*d*) Disafforested.
(*e*) Transferred to Central Coimbatore from South Malabar.
(*f*) Transferred to the Nilgiris from North Coimbatore.
(*g*) Less than one acre was disafforested.

Area of reserved forests and reserved lands during 1909-1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved lands not transferred to reserved forests during the year.							
The Nilgiris—*cont.*	THE NILGIRIS.							
	Area notified in previous years ..	55,237	86	(*b*) 11	(*a*) 366	54,882	86	
	Reserved forests.							
Kollegal.	KOLLEGAL.							
	Doddasampagai reserve extension.	..	..	653	..	653	..	No. 358, dated 19th August 1909.
	Area notified in previous years ..	301,982	..	..	(*c*) 16,277	285,705	..	....
	Total ..	301,982	472	653	16,277	286,358	447	
	Reserved lands not transferred to reserved forests during the year.							
	KOLLEGAL.							
	Andipalayam Field No. 299 (portion) in Doddasampagai reserve.	..	..	2	..	2	..	No. 163, dated 18th March 1910.
	Area notified in previous years ..	165,714	..	..	(*a*) 653	165,061	..	....
	Total ..	165,714	259	2	653	165,063	258	
	Reserved forests.							
Coimbatore, North.	BHAVANI.							
	South Bargur addition Field Nos. 702 and 703 of Ennamangalam.	..	..	13	..	13	..	No. 390, dated 6th September 1909.
	Area notified in previous years ..	535,980	..	(*c*) 69,979	(*e*) 28,140	577,819	..	....
	Total ..	535,980	837	69,992	28,140	577,832	903	
	Reserved lands not transferred to reserved forests during the year.							
	BHAVANI.							
	Palamalai addition	..	..	19	..	19	..	No. 117, dated 4th February 1910.
	TALAMALAI.							
	Field No. 346 in Kinnarimandai in the Talamalai reserve.	..	..	4	..	4	..	No. 250, dated 26th April 1910.
	SATYAMANGALAM.							
	Gutialattur extension	..	..	(*d*) 248	..	(*d*) 248	..	No. 158, dated 24th March 1910.
	Area notified in previous years ..	10,574	..	..	(*d*) 321 (*a*) 13	10,240	..	....
	Total ..	10,574	17	271	334	10,511	16	
	Reserved forests.							
Coimbatore, Central.	Area notified in previous years ..	175,217	274	(*f*) 21,440	..	196,657	307	No. 215, dated 24th March 1910.
	Reserved lands not transferred to reserved forests during the year.							
	Area notified in previous years ..	13	..	(*f*) 30,330	..	30,343	47	No. 215, dated 24th March 1910.

(*a*) Transferred to reserved forest.
(*b*) Added at settlement.
(*c*) Rectification of area due to adoption of Survey of India figures.
(*d*) Original notification was renotified.
(*e*) Transferred to the Nilgiris from North Coimbatore.
(*f*) Transferred to Central Coimbatore from South Malabar.

Area of reserved forests and reserved lands during 1909-1910—*cont.*

District.	Number and name of forest.	Area on 1st July 1909. Acres.	Area on 1st July 1909. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1910. Acres.	Area on 30th June 1910. Equivalent in square miles.	Number and date of notification of addition or transfer.
	SOUTHERN CIRCLE—*cont.*							
	Reserved forests.							
Coimbatore, South.	Area notified in previous years ..	292,515	457	..	..	292,515	457	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Madura ..	Area notified in previous years ..	426,503	666	..	..	426,503	666	
	Reserved lands not transferred to reserved forests during the year—Nil.							
	Reserved forests.							
Tinnevelly.	KUTTALAM.							
	Vasudeva estate block	..	..	162	..	162	..	No. 165, dated 22nd March 1910.
	Area notified in previous years ..	279,740	..	..	(*a*) 1	279,739	..	No. 95, dated 3rd February 1910.
	Total ..	279,740	437	162	1	279,901	437	
	Reserved lands not transferred to reserved forests during the year.							
	SRÍVILLIPUTTÚR.							
	Survey Nos. 1861 B of Valaikulam and 2359 of Kollankondan in Srívilliputtúr ghât reserve	..	..	27	..	27	..	No. 391, dated 8th September 1909.
	Sappani Parambu extension ..	..	..	6	..	6	..	No. 37, dated 5th January 1910.
	Valaikulam Parambu extension.	..	..	34	..	34	..	No. 271, dated 3rd May 1910.
	Srívilliputtúr ghât forests V (a) additions 1 to 4	..	..	35	..	35	..	No. 297, dated 11th May 1910.
	Srívilliputtúr ghât forests V (a) additions 5 to 7	..	..	13	..	13	..	No. 335, dated 14th May 1910.
	Srívilliputtúr ghât forest V (a) extension	..	..	35	..	35	..	No. 347, dated 10th June 1910.
	KUTTALAM.							
	Vadagarai Melpidagai block III (b) extensions A, B & C. ..	..	..	71	..	71	..	No. 336, dated 8th June 1910.
	Additions to the reserved forests III (c) (2), Kadayanallur ..	..	..	33	..	33	..	No. 368, dated 27th June 1910.
	AMBÁSAMUDRAM.							
	Kaloli enclosure in Terkuviravanallur block	..	..	9	..	9	..	No. 57, dated 8th February 1910.
	NÁNGUNÉRI.							
	Vallanad addition	..	..	12	..	12	..	No. 91, dated 8th February 1910.
	Area notified in previous years ..	868	..	(*b*) 81	(*c*) 162	787	..	No. 165, dated 22nd March 1910.
	Total ..	868	1	356	162	1,062	2	

(*a*) Disafforested. (*b*) Excluded at settlement. (*c*) Transferred to reserved forests.

ANNUAL FORM No. 66.

Forest Department, Madras Presidency.

STATEMENT showing the Progress made in, and the Expenditure incurred on, Forest Settlements during 1909–1910.

ANNUAL

Forest Department,

STATEMENT showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year. Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled: In forest accounts.	Expenditure incurred during the year on areas finally settled: In other accounts.	Entire cost per square mile of areas finally settled during the year.
1	2	3	4	5	6	7	8
							Northern
	SQ. MLS.			SQ. MLS.	RS. A. P.	RS. A. P.	RS. A. P.
Ganjám ..	598	....	....	..	..	..	..
Vizagapatam.	297·87	....	Baruva extension II	0·25	..	..	..
Gódávari, Upper.	427·73	G.O., No. 231, Revenue, dated 20th May 1909.	....	..	..	..	..
Gódávari, Lower.	407	....	....	..	..	..	..
Kistna ..	278·49	....	....	..	..	..	..
Kurnool, East.	1,477·91	....	....	..	..	..	..
Kurnool, West.	1,151	....	....	..	..	..	..
Bellary ..	624	G.O., No. 1800, dated 7th July 1909.	Addition to Konthanapalli Survey No. 14, inam land.	0·01	..	..	..
Anantapur.	529·048	G.O., No. 220, Revenue, dated 13th August 1909.	Nyalakota extension	0·36	..	..	..
		G.O., No. 139, dated 15th January 1910.	Yerrakonda extension No. I ..	† 5·30	..	..	..
		....	....	..	..	..	..
Total ..	5,791·048			5·92	..	..	..
							Central
North Cuddapah.	734·9	....	....	..	..	..	..
East Cuddapah.	1,083·43	....	....	..	..	..	..
South Cuddapah.	529	....	....	..	..	..	..
Nellore ..	737·07	....	....	..	..	..	..
				ACS.			
Chingleput.	211·72	G.O., No. 2706, dated 2nd October 1909.	Oragadam extension No. III ..	17·16	..	..	..
		G.O., No. 1149, dated 8th April 1910.	Koilpadagai extension No. II.	8·63			
		G.O., No. 900, dated 22nd March 1910.	Guindy Park	1,081·00			
		G.O., No. 999, dated 29th March 1910.	Salur extension No. I ..	9·42			
			Total ..	1,116·21 or 1·74 sq. mls.	..	..	..

	ACS.
* Chokkapad	30·00
Jillundi fuel coupe (unreserve)	·30
III of Buguda (unreserve) .. .. .. } V of do. (do.) .. .. .. } VIII of do. (do.) .. .. .. } IX of do. (do.) .. .. .. }	6·00
	36·30

† As corrected by the Collector.
‡ Sarugudu block No. VI.

FORM No. 66.

Madras Presidency.

incurred on, Forest Settlements during 1909–1910.

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on area undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle.						
	SQ. MLS.		SQ. MLS.	RS. A. P.	RS. A. P.	SQ. MLS.
....	..	Pudringi enclosure	0·11	..	..	* 36·30
Somaralli	† 4·10	....	..	..	..	† ‡ 10·16
....	..	....	..	..	..	..
Coringa extension	75	....	..	..	..	..
....	..	....	..	..	..	§ 19·11
....	..	....	..	..	..	..
....	..	....	..	..	..	..
Moka plantation	† 1·6	Sandal area near Chilkanhatti.	‖ 1·19	..	..	..
Kuderu reserve extension ..	0·93	Vengalammacheruvu extension.	0·09	..	441 1 2	¶ 17·42
Ramagiri reserve additions I and II.	0·12	Yerrakonda extension No. II.	9·80	..	227 14 10	..
..	..	Budikonda extension No. I ..	0·58	..	..	..
	81·75		11·77	..	669 0 0	82·99
Circle.						
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	....	..	..	..	....
....	..	Senkundram extension No. II.	ACS. 58·11 or 0·09 sq. mile.	..	..	....

	ACS.
§ Kanukollu	1,728
Kaldindi block I	533
Do. do. II	581
Peddalanka block I	1,618
Do. do. II	1,183
Vyavaku	4,383
Kummarapurugupalem	1,855
Perupalem block I	39
Do. do. II	45
Gopuvanipalem extension	159
Tallapalem	206
	12,230 or 19·11 sq. mls.

	ACS.
¶ Bhadrapur extension	360
Jennyavulapalli do.	96
Marutla do.	321
Myderlapalli reserve	3,957
Palavoy do.	705
Bhogasamudram	5,000
Pamidi	712
	11,151 or 17·42

‖ Notified during 1908–1909.

Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.
					In forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8
							Central
	SQ. MLS.			SQ. MLS.			
North Arcot.	*1,288·79	....	....	..	..	..	..
South Arcot.	† 666	....	....	..	..	..	..
North Salem.	931	....	....	..	..	..	..
South Salem.	670·38	....	....	..	..	..	..
Trichinopoly.	‡ 279·92	....	....	..	..	..	..
Tanjore ..	19	....	....	..	..	..	..
Guntúr ..	814·43	....	....	..	..	..	..
			Total ..	1·74	..		..
							Southern
South Canara.	870	G.O., No. 3035, Rev., dated 8th Nov. 1909.	Bellery	1	..	..	..
		G.O., No. 3494, Rev., dated 20th Dec. 1909.	Shiradi Sisla extension III ..	1	..	..	..
		....	Shiradi Sisila extension IV ..	..	..	..	..
		G.O., No. 3555, Rev., dated 27th Dec. 1909.	Andar extension I		..	..	..
		G.O., No. 893, Rev., dated 22nd March 1910.	Kilarmale extension VII ..	..	..	..	..
			Total ..	2	..	..	..
Malabar, North.	261	....	....	..	..	..	..
Malabar, South.	196 (a)—33	....	....	..	..	..	..
The Nilgiris.	438 (b)+44	G.O., No. 2488, Rev., dated 9th Sept. 1909.	Kunshola addition No. I ..	·02	..	..	..
		G.O., No. 2997, Rev., dated 5th Nov. 1909.	Kokkothorai	·52	..	..	..
		....	....	..	..	..	..
			Total ..	·54	..	..	..
Kollegal ..	472 (c)—26	G.O., No. 2229, Rev., dated 13th Aug. 1909.	Doddasampagai addition ..	1	..	..	..
	..	....	....	..	..	..	..
			Total ..	1	..	..	..
Coimbatore, North.	..	....	....	..	..	..	..
	837 (c)+110 (b)—44	G.O., No. 2461, Rev., dated 6th Sept. 1909.	South Burgur reserve addition.	·02	..		..
			Total ..	·02	..	..	..

* Excludes 510·99 acres disafforested.

† Difference due to the correct computation of area at the time of preparing working plans for Vadakuttu working circle and for Kallakurichi range and to the disafforestation of 15·40 acres in Talankoda reserved forest.

‡ Difference due to the correct computation of areas of reserves—*vide* foot-note to Form No. 65.

(a) Transferred from South Malabar to Central Coimbatore.
(b) Do. North Coimbatore to the Nilgiris.
(c) Rectification of area due to adoption of Survey of India figures.

incurred on, Forest Settlements during 1909–1910—*cont.*

Areas undergoing settlement.						
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		Estimate of areas in which settlement operations have not yet commenced.
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle— cont.						
	SQ. MLS.		ACS.	RS.		SQ. MLS.
Bommasamudram C block ..	·726	Airala extension	850 or 1·33 sq. mls.	..	..	....
....	..	....	..	..	..	....
Hudaidurgam	46	....	..	..	..	....
....	..	Arana	3	12	..	....
		Tirtagiri	3			
			6	12	..	....
Mogavanur	1·78	Palamalai extension	1·39	..	..	7·53
Vengur Padugai ..	1·00	V. Kanapadi extension ..	1·00	..	..	....
	2·78		2·39	..	..	....
Vengur (Togur)	0·55	....	..	..	..	....
....	..	Gokanakonda extension No. I.	8 acres.	..	..	....
	50·05		9·81	..	..	7·53
Circle.						
Bantaji	4	Kilarmale extension VIII ..	..	68	..	108
Balpa extension	2	....	..	..	..	..
Bakudihola extension	..	....	..	..	..	..
Parappa addition No. I ..	..	....	..	..	..	..
....	..	....	..	..	..	..
....	.	....	..	..	..	..
Total ..	6	Total ..	..	68	..	108
....	..	Ladysmith addition	·75	..	..	..
The Silent valley	45	....	..	..	..	..
Bokkapuram reserve addition No. I.	·008	....	..	74	..	..
Bokkapuram reserve addition No. II.	·006	....	..	..	..	..
Bokkapuram reserve addition No. III.	·006	....	..	..	..	..
Total ..	·02	Total ..	..	74	..	10·50
Madeswaranmalai and its extension.	246	Andipalayam Field No. 299 (portion in Doddasampagai reserve).	..	..	..	..
Mambetta block	12	....	..	..	..	..
Total ..	258	Total ..	..	..	..	..
Ennamangalam	16	Palamalai additions	·03	..	..	..
Gutialatur extension ..	·50	Talamali additions	·006	..	..	..
	(d)— ·12					
....		....	..	..	..	..
Total ..	16·38	Total ..	·036	..	..	..

(d) Excluded by renotification.

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Statement showing the Progress made in, and the Expenditure

Name of forest district.	Area already settled at commencement of year.	Areas finally settled during the year.					
		Number and date of Government Order according final sanction to the settlement.	Name of forest settled.	Area.	Expenditure incurred during the year on areas finally settled. In forest accounts.	Expenditure incurred during the year on areas finally settled. In other accounts.	Entire cost per square mile of areas finally settled during the year.
1	2	3	4	5	6	7	8
							Southern
	SQ. MLS.			SQ. MLS.			
Coimbatore, Central.	274 (a)+33	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	..	..	..	..
Coimbatore, South.	457	....	....	..	..	..	..
Madura ..	666	....	....	..	..	..	..
Tinnevelly.	437	G.O., No. 892, Rev., dated 22nd Mar. 1910.	Vasudeva estate block ..	·253	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
	..	....	....	..	..	..	..
			Total ..	·253	..	..	..
Total for the circle.	4,992	....		3·81	..	..	..

(a) Transferred from South Malabar to Central Coimbatore.

incurred on, Forest Settlements during 1909–1910—*cont.*

Areas undergoing settlement.						Estimate of areas in which settlement operations have not yet commenced.
At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing settlement.		
Name of tract.	Area.	Name of tract.	Area.	In forest accounts.	In other accounts.	
9	10	11	12	13	14	15
Circle—cont.						
	SQ. MLS.		SQ. MLS.	RS.		SQ. MLS.
Chennimalai reserve addition.	·02	....	..	1,02,951	..	..
Attapadi block No. V .. / Do. No. VI ..	47	....	..			
Total ..	47·02	Total ..	..	1,02,951	..	..
....	..	....	..	..	..	..
....	..	....	..	..	..	..
Naranapuram block	·609	....	..	2,534	..	..
Mayanparambu estate block ..	·170	....	..	..	..	..
Survey No. 365 of Marandai village Kottamalai extension.	·030	....	..	..	..	..
Kottamalai addition in three bits.	·166 (b)+·024	....	..	..	..	..
Panjanthangi estate	·113	....	..	..	..	..
Milavittan addition	·011	....	..	..	..	..
....	..	Survey Nos. 1861 B of Valaikulam and 2359 of Kollankondan in Srívilliputtúr ghât reserve.	·043	..	..	..
....	..	Sappani Parambu extension ..	·009	..	..	..
....	..	Srívilliputtúr ghât forests V-A additions 1 to 4.	·054	..	..	..
....	..	Vallanad addition	·019	..	..	..
....	..	Kaloli enclosure in Terku Viravanallur block.	·014	..	..	..
....	..	Valaikulam Parambu extension.	·054	..	..	..
....	..	Srívilliputtúr ghât forests V-*a* additions 5, 6 and 7.	·020	..	..	..
....	..	Srívilliputtúr ghât forests V-*a* extension.	·054	..	..	..
....	..	Vadagarai Melpidagai block III (*b*) extensions A, B & C.	·110	..	..	..
....	..	Additions to the reserved forest III (*c*) (2) Kadayanallur.	·052	..	..	..
Total ..	1·123	Total ..	·429	2,534	..	·104
	373·54		1·215	105,627	..	118·604

(*b*) Omitted in last year's return.

ANNUAL FORM No. 67.

Forest Department, Madras Presidency.

RECORD of Demarcation and Maintenance of Boundaries, 1909–1910.

District.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries still to be demarcated at the close of the year	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year. On new work.	Expenditure on demarcation during the year. On repairs.
1	2	3	4	5	6	7	8	9	10
Northern Circle.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	MILES.	RS.	RS.
Ganjám (a-6)	50	197 (a) 737	229	1,213	...	80	1,293	1,025	1,779 (d)—1
Vizagapatam	43	(a) 452	...	495	...	...	495	468	42 (d) + 10
Gódávari, Upper	...	(a) 423	...	423	...	143	566	...	147
Do. Lower	...	10 (a) 573	225	(f) 808	7	(f) 72	887	...	135 (b) 536 (c)
Kistna	(e) 8	7 (e) 63	492	570	5	41	616	238	705 (d)—2
Kurnool, East	..	40	1,134	1,174	...	79	1,253	...	710 (d) + 28
Do. West	54	502 (e) 249	534	1,339	67	104	1,510	1,975	4 (d) + 5
Bellary	7	629	1,152	(f) 1,788	...	...	1,788	83	1,430 (d)—18
Anantapur	...	94	1,285	1,379	...	...	1,379	1,717	637
Total ...	162	1,791 (a)2,185	5,051	9,189	79	519	9,787	5,506	6,147
Central Circle.									
Cuddapah, North	...	(a) 960 53	365	1,378	...	29	1,407	...	(u) 266
Do. East	17	(g) (a)560 33	(g) 247	857	...	46	903	100	(h) 152
Do. South	10	(a) 850	251	1,111	(i) 5	...	1,116	...	57
Nellore	...	(a)(s) 2,079	...	2,079	...	84	2,163	...	1,418 (d) + 48
Chingleput	...	(a) 794	130	924	...	...	924	...	(j) 2,348 (d) — 2
Arcot, North	...	(a) 2,433	33	2,466	...	44	2,510	(k) 9	(d) 474
Do. South	14	(a) 1,603 (l) 9	736	2,362	...	...	2,362	(m) 415	(n) 735
Salem, North	70	(a) 1,124	101	1,295	13	65	1,373	338	211
Do. South	(o) 14	(a) 1,039 44	216	1,313	...	5	1,318	77	72
Trichinopoly	...	(a) 211 552	142	905	17	24	946	(p) 16	(q) 121
Tanjore	...	...	79	79	...	...	79	...	...
Guntúr	...	21	1,371	1.392	...	...	1,392	...	120 (r) 187
Total ...	125	(a)11,653 712	3,671	16,161	35	297	16,493	955	6,207
Southern Circle.									
Canara, South	46 (a) 18	150 (a) 2,015	1,343	3,572	178	123	3,875	2,057 (a-5)—80	10 (d) + 9
Malabar, North	...	...	1,089	1,089	99	36	1,224	...	...
Do. South	...	...	186 (w)—54	132	14	38	184	...	(z) 567
The Nilgiris	...	451	1,119 (x)+44	1,614	(y) ...	260 (x)+39	1,913	...	1,912 (d) + 74
Kollegal	...	5	35	363	9	67	439	(a-2) 144	25
Coimbatore, North	...	9	577 (x)—44	542	...	148 (x)—39	651	...	155 (d) — 19
Do. Central	...	7 (w) 4	498 (w)+50	559	...	43	602	...	127 (a-1) 390
Do. South	...	...	228	228	...	52	280	...	(a-1) 328 (d)—40
Madura (f)	293	(a) 658	...	951	603	178	1,732	6,459	(a-3) 296 (a-1) 239
Tinnevelly (f)	...	(t)	(t) 459	459	3	14	476	(a-4) 262	(a-1) 287
Total ...	357	626 (a) 2,673	5,853	9,509	906	959	11,374	8,842	4,360
Grand Total ...	644	3,129 (a)16,511	14,575	34,859	1,020	1,775	37,654	15,303	16,714

(a) Cleared by forest subordinates free of cost.
(b) Reclearing boundary line between Vuligogulu Reserve, Tuni and Peddapur estate forests and for repairing cairns.
(c) Establishment charges.
(d) Added or deducted as per Accountant-General's audited fi ures.
(e) Coupe and compartment lines in the latter.
(f) As per revised figures furnished by Collectors.
(g) Difference between total figures of columns 3 and 4 of this return and those in column 5 of the previous year is due to the non-maintenance during the year of boundaries between reserves owing to the formation of working circles.
(h) Rs. 90 represents cost of demarcating 33 miles; Rs. 14 of sundry demarcation work for 6 miles and Rs. 48 cost of cutting working circle boundary lines.
(i) Length of district and taluk boundaries between Anantapur, North and South Cuddapah, cleared.
(j) Includes Rs. 2,173 pay and famine allowance of watchers.
(k) Incurred in demarcating the enclosures in Tirupati hill extension reserve of ·32 miles.
(l) Cleared at a cost of Rs. 80 in the Tirukkóyilúr range. The Range officer having spent this without previous sanction, the question of recovering the excess over the schedule rate is under consideration of the District Forest-officer.
(m) Includes cost of slabs for the demarcation of Ponniar block.
(n) Cost of rectification of demarcation already done and demarcation of coupes and topes.
(o) Cutting and clearing coupe lines at a cost of Rs. 65.
(p) For completing the unfinished portion of the Iyanarpalayam Reserved forest and for demarcating 10 acres of Korai area in Lalapet reserve.
(q) Cost of reclearing 19 miles of old lines and boundaries.
(r) For cutting coupe, compartment and strip lines.
(s) Difference between the total of columns 3 and 4 and that of column 5 of last year's return is explained by the Collector to be due to the difference in the area observed in the portion disafforested from the Vavveru reserved forest in 1903.
(t) Particulars for columns 3 and 4 are reported to be not available.
(u) Cost of clearing coupe lines and taluk and reserve boundaries and erecting cairns.
(w) Transferred from South Malabar to Central Coimbatore.
(x) Transferred from North Coimbatore to the Nilgiris.
(y) Two miles shown in the last year's return are omitted as they relate to enclosures requiring no separate demarcation.
(z) Cost of preliminary demarcation and reclearance of boundaries for survey by the Survey of India party.
(a-1) Cost of cutting and clearing coupe lines.
(a-2) Cost of stones for Doddasampagai extension.
(a-3) Cost of demarcating grazing areas.
(a-4) Cost of demarcating enclosures.
(a-5) Cash recovery ordered.
(a-6) Forty-eight miles of boundaries in the Parlákimedi maliahs were artificially demarcated during the year at a cost of Rs. 577.

Annual Form No. 68.

Forest Department, Madras Presidency.

Statement of forest areas surveyed and under survey during the year 1909-1910.

District.	Areas surveyed and under survey during the year 1909–1910.															
	Special Surveys—Maps on 2-inch scale or over by Survey of India or Madras Survey.								Ordinary, included in topographical programme of the Survey of India or in district surveys.							
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.		
	With details of growing stock.		Without details of growing stock.						With details of growing stock.		Without details of growing stock.					
	Previous.	Of year.	Previous.	Of year.	Total cost.	Previous.	Of year.	Total cost.	Previous.	Of year.	Previous.	Of year.	Total cost.	Previous.	Of year.	Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern Circle.	S. M.	S. M.	S MLS.	S. M.	RS.	S. MLS.	S. M.	RS.	S. M.	S. M.	S. MLS.	S. M.	RS.	S. M.	S. M.	RS.
Direction	..	..			..	..	..	..	..	..	..		..	..	..	..
Ganjám	..	..	(a) 794	..	..	(c) 447	..	(d)11,081	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gódávari, Upper ..	..	..	(b) 716	..	..	252	..	..	..	..	..	..	..	..	..	..
Do. Lower ..	..	..														
Kistna .. .	..	..	88	..	..	27	..	..	..	..	..	..	..	..	..	..
Kurnool, East ..	..	..	2,725	..	..	937	..	..	..	..	..	..	..	..	..	..
Do. West ..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
Bellary	..	..	..	..	..	..	..	..	..	..	(c)624	..	..	..	..	..
Anantapur ..	..	..	168	..	..	..	..	..	..	..	188	..	..	..	..	..
Total ..	..	..	4,491	..	..	1,663	..	11,081	..	..	812	..	..	..	..	..
Central Circle.																
Cuddapah, North ..	..	..	(e) 577	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. East ..	..	..	1,083	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South ..	..	..	(e) 240	..	..	MLS. (e) 355	..	..	..	..	(e)289	..	Not known	MLS. 761	..	..
Nellore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chingleput	..	..	40	..	..	..	..	..	..	..	..	..	..	..	..	..
Arcot, North	..	..	1,193	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South	..	..	217	..	8,829	82	..	..	..	..	441	..	..	..	..	..
Salem, North	..	..	931	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. South . ..	..	..	621	..	..	..	..	..	..	..	..	..	..	49	..	..
Trichinopoly	..	..	66	..	25,000	124	..	246	..	.	..	..	..	(e) 280	..	..
Tanjore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Guntúr	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	67	..	4,968	..	33,829	206 MLS. 355	..	246	..	.	730	..	..	329 MLS. 761	..	..
Southern Circle.																
South Canara ..	..	..	(i) 1,226	40	..	592 and 25 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Malabar, North ..	..	..	155	..	..	158 and 3 linear miles.	..	7,390	..	..	..	..	..	..	..	..
Do. South ..	1	..	237 (g) −61	..	..	130	..	..	..	..	2	..	..	..	..	..
The Nilgiris	..	..	(f) 357 (h) +86	59	..	..	..	..	..	..	..	..	..	..	..	..
Kollegal *	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..
Coimbatore, North* ..	..	..	(i)1,929 (h) −86	..	..	319	..	7,574	..	..	..	..	..	..	..	..
Do. Central *	..	..	(g) +61 (j) 665	48	..	7	..	..	..	..	..	..	..	..	..	..
Do. South * ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madura	..	.	618	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinnevelly	..	..	437	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	1	.	5,624	147	..	1,206 and 28 linear miles.	..	22,354	..	..	2	..	..	..	..	..
Grand Total ..	68	..	15,083	147	33,829	3,075 MLS. 383	..	33,681	..	..	1,544	..	..	329 MLS. 761	..	..

(a) Furnished by the India Survey Party and includes enclosures inside reserves.
(b) This figure was entered by the India Survey Party for the Gódávari district.
(c) As revised by the Collectors.
(d) This amount is for Ganjám, Gódávari (Upper and Lower), Kistna and Kurnool (East and West) districts.
(e) Revised figures reported by the Collector. (f) Revised figure furnished by Survey of India.
(g) Transferred from South Malabar to Central Coimbatore. (h) Transferred from North Coimbatore to the Nilgiris.
(i) Survey of India figure; it more than covers the total area of reserves.
(j) Of these 130 square miles were resurveyed on the 2-inch scale during the year.
* Separate figures for these districts are reported to be not available at present.

Statement of forest areas surveyed and under survey during the year 1909–1910—*cont.*

District.	Areas surveyed and under survey during the year 1909–1910—*cont.* Chain and compass or other surveys by local officers. With interior details. 4-inch or over. Previous.	Of year.	Under 4-inch. Previous.	Of year.	Total cost.	Boundary surveys. Previous.	Of year.	Total cost.	Areas remaining to be taken under survey.	Total forest area at end of year, as per Form No. 65.	Cost. Previous.	Of year.	Entire cost of all surveys to end of the year.
	18	19	20	21	22	23	24	25	26	27	28	29	30
Northern Circle.	S. MLS.	S. MLS.	S. MLS.	S. MLS.	RS.	S. MLS.	S. MLS.	RS.	S. MLS.	S. MLS.	RS.	RS.	RS.
Direction	..	..	..	..	..	..	..	..	..	..	225	647	872
Ganjám	53	..	..	..	..	1,485	..	..	..	(a) 598	17,623	(c) 796	18,419
Vizagapatam	298	..	..	..	..	..	..	..	..	298	(r) 2,207	..	2,207
Gódávari, Upper	..	..	..	..	..	..	..	..	(g) 301	(q) 428	2,708	.. (d) + 994	3,702
Do. Lower	1	..	26	..	6	540	..	796		.. (q) & (t) 407	.. 11,355	(c) 368	11,723
Kistna	15	1	..	..	5	366	8	203	174	278	3,706	(c) 961	4,667
Kurnool, East	51	..	..	..	215	115	..	110	..	1,478	3,371	(c) 1,760 (d) + 2	5,133
Do. West	..	..	..	..	..	59	65	388	(s) 396	1,162	1,912	206 (d) + 843	2,961
Bellary	(b)..	..	..	..	(b)..	..	..	..	..	624	3,761	424 (d) + 623	4,808
Anantapur	173	..	..	..	..	12	14	1,775	6	535	3,040	819	3,859
Total	591	1	26	..	226	2,577	87	3,272	877	5,808 +(l)193	(t)49,908	(e) 8,443 +(e)2,306	58,251 (e)+2,306
Central Circle.													
Cuddapah, North	..	..	..	..	..	..	..	..	158	736	1,10,586	(f) 319	1,10,905
Do. East	..	..	..	..	..	..	..	..	..	1,083			
Do. South	..	..	..	..	..	..	..	..	..	529			
Nellore	..	..	..	..	..	(g) 10	..	302	..	737	3,366	302 (m) + 104	3,772
Chingleput	..	..	..	..	..	..	..	..	..	(k) 213	2,745	(f) 385	3,130
Arcot, North	97	..	..	..	..	..	..	..	..	(k) 1,292	19,445	317	19,762
Do. South	6		..	..	52	..	..	..	..	(h) 666	10,834	(f) 375	11,209
Salem, North	..	..	..	..	..	..	..	..	..	977	26,238	2,177 (m) + 2	28,417
Do. South	40	2	..	..	(j) 166	398	..	149	7	676	(j) 25,981	(i) 831 (m) − 30	26,782
Trichinopoly	(h) 14	6	..	..	(j) 980	132	..	360	126	(h) 285	(j) 32,481	980	33,461
Tanjore	20	..	..	..	..	..	..	..	..	20	34	(m) + 38	72
Guntúr	..	..	..	..	..	..	..	..	..	814	15,067	(f) 439 (m) − 55	15,451
Total	177	8	..	..	1,198	540	..	811	291	8,028	2,46,777	6,184 + (m) 863	252,961 +(m)863
Southern Circle.													
South Canara	..	..	..	..	..	906	..	..	..	986	57,591	385	57,976
Malabar, North	..	..	..	..	..	..	..	..	107	262	12,565	576	13,141
Do. South	..	..	..	..	..	183	..	..	48	227	1,648	362	2,010
The Nilgiris	..	..	..	..	..	..	..	..	(o) 66	568	2,636	380	3,016
Kollegal *	..	..	..	..	..	..	..	..	13	705	.. 95,482	52 ..	.. 96,028
Coimbatore, North *	..	..	..	..	..	..	..	..	..	919	..	494	..
Do. Central *	..	..	..	..	..	..	..	..	.. 1	354	10,056	621	. 11,140
Do. South *	..	..	..	..	..	..	..	..	4	457	..	463	..
Madura	..	..	..	..	..	48	..	..	..	666	3,759	623	4,382
Tinnevelly	..	..	..	..	..	.	..	..	..	439	2,802	319	3,121
Total	..	..	..	..	..	1,137	..	..	248	5,583	1,86,539 (n) + 69 (u)+12,476	(p) 4,275	190,814 (n) + 69 (u)+12,476
Grand Total	768	9	26	..	1,424	4,254	87	4,083	1,416	19,612	4,95,769	18,902 + (m) 863 +(e) 2,306	514,571 +(m)863 +(e)2,306

* The figures for these districts cannot be separated at present.
(a) As per settlement records; excludes enclosures inside reserves.
(b) As revised by the Collectors.
(c) Establishment charges.
(d) Adjusted as per Accountant-General's audited figures.
(e) Survey of India charges during the year in the Northern Circle.
(f) Represents pay of draftsmen.
(g) Omitted from the district return last year.
(h) Difference between this figure and that given in column 27 of the previous year's return is due to the correct computation of areas—*vide* footnote to Form No. 65.
(i) Represents pay of surveyor, draftsman and contingencies connected with survey.
(j) Revised cost reported by the Collector.
(k) Difference between this figure and that given in column 27 of the previous year's return is due to disafforestaion of small areas.
(l) Area of reserved lands.
(m) Added or deducted as per Accountant-General's audited figures.
(n) Charges included under Direction in 1906–1907.
(o) Reserves of less than 1 square mile in extent.
(p) Expenditure under A-VIII (c) as per Accountant-General's audited figures.
(q) These three areas are less than the total surveyed area. The Collector explains that 716 in column 4 is wrong. Reference has been made to the India Survey Party.
(r) Includes Rs. 2,150 of previous years omitted by mistake.
(s) This is more than the difference between the surveyed area and the area of reserved forest. The Collector has been asked to explain.
(t) Corrected in the Board's office.
(u) Survey of India charges in 1906–1907.

ANNUAL FORM No. 69.

Forest Department, Madras Presidency.

PROGRESS made in working-plans during 1909–1910.

District.	Areas for which working-plans have been completed and approved by the Board		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest areas, as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Northern Circle.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	RS.	
Ganjám	451	..	..	..	147	598	..	
Vizagapatam	145	..	7	..	146	298	..	
Gódávari, Upper	..	..	225	..	203	428	..	
Do. Lower	240	..	55	..	112	407	486	
Kistna	58	..	33	59	128	278	..	
Kurnool, East	(a) ..	..	..	..	(b) 1,478	1,478	..	
Do. West . ..	541	..	420	1	200	1,162	..	
Bellary	157	..	207	..	260	624	..	
Anantapur	436	..		..	99	535	..	
Total ..	2,028	..	947	60	2,773	5,808 + (d) 193	486	
Central Circle.								
Cuddapah, North	158	..	272	..	(c) 306	736	496	Pay and travelling allowance of draftsman.
Do. East	109	228	..	..	746	1,083	..	
Do. South	..	..	..	..	529	529	..	
Nellore	114	..	§ 587	..	36	737	..	
Chingleput	* 2	† 211	..	..	..	213	..	
Arcot, North	† 1,198	91	..	..	(c) 3	1,292	..	
Do. South	321	‡ 132	16	149	48	‡ 666	397	Pay, travelling allowance and batta of the draftsman.
Salem, North	299	..	678	..	..	977	..	
Do. South	487	53	..	..	136	676	..	
Trichinopoly	1	‡ 132	132	.	20	‡ 285	..	
Tanjore	4	..	15	..	1	20	..	
Guntúr	41	..	‖ ..	..	773	814	..	
Total ..	2,734	847	1,700	149	(c) 2,598	¶ 8,028	893	
Southern Circle.								
South Canara	662	..	..	..	210	872	..	
Malabar, North	178	..	..	..	83	261	..	
Do. South	7	..	..	..	152	159	..	
The Nilgiris ..	23 ** +90	..	..	..	369	482	..	
Kollegal	43	..	..	..	404	447	..	
Coimbatore, North..	381 ** —90 †† — 2	..	..	..	614	903	..	
Do. Central ..	220	..	..	..	87	307	..	
Do. South ..	67	..	8	..	355	430	..	
Madura	356	..	..	..	310	666	..	
Tinnevelly	240	..	..	5	192	437	..	
Total ..	2,175	..	8	5	2,776	4,964	..	

* Represent the area of Guindy Park for which a working-plan was approved by His Excellency the Governor.
† Difference due to disafforestation of small areas.
‡ Due to correct computation of areas—*vide* foot-note to Form No. 65.
§ Difference between this and last year's figure is reported to be due to converting acres into square miles wrongly.
‖ 3 square miles entered in last year's return is reported to be a mistake and therefore omitted.
¶ Includes area of reserved lands.
** Transferred from North Coimbatore to the Nilgiris.
†† Disafforested.
(*a*) Collector states that the entry of last year was a mistake, as there are no sanctioned working-plans in this division.
(*b*) Revised figure furnished by the Collector.
(*c*) Corrected in the Board's office.
(*d*) Area of unreserved lands in the Northern Circle.

Progress made in working-plans during 1909–1910—*cont.*

District.	Areas for which working-plans have been completed and approved by the Board		Areas for which working-plans are being compiled or have been compiled but not sanctioned		Areas for which working-plans have still to be taken in hand.	Total forest area as in Form No. 65.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of year.	During year.	At commencement of year.	Taken in hand during year.				
1	2	3	4	5	6	7	8	9
Reserved lands.								
South Canara	..	..	..	..	114	114	..	
Malabar, North	..	..	..	..	1	1	..	
Do. South	..	..	..	..	45	45	..	
The Nilgiris	..	..	..	..	10	10	..	
Kollegal	10	..	..	..	248	258	..	
Coimbatore, North ..	..	..	..	..	16	16	..	
Do. Central ..	..	..	..	..	47	47	..	
Tinnevelly..	..	..	..	..	2	2	.	
Total ..	10	..	..	..	483	493	..	
Leased forests.								
Malabar, South	23	..	..	..	..	23	..	
The Nilgiris	76	..	..	..	..	76	..	
Coimbatore, South ..	..	..	..	..	27	27	..	
Total ..	99	..	..	..	27	126	..	
Total, Southern Circle..	2,284	..	8	5	3,286	5,583	..	
Grand Total, Presidency..	7,046	847	2,655	214	8,657	19,419 + (*d*) 193	1,379	

(*d*) Area of unreserved lands in the Northern Circle.

ANNUAL FORM No. 70.

Forest Department, Madras Presidency.

COMMUNICATIONS and Buildings.

ANNUAL

Forest Department,

COMMUNICATIONS

District.	New work undertaken during the year.					Total expenditure on new work.
	Buildings.		Roads and paths.			
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
			Northern			
		RS.		MLS.	RS.	RS.
Direction ..	Houses for subordinate establishment	13,196	Ghat-roads	..	11,623	24,819
	Total, Direction ..	13,196		..	11,623	24,819
Ganjám * ..	Rest-houses	2,667	Cart-roads	19	2,026	8,706
	Houses for subordinate establishment	1,450				
	Others	2,563				
	Total, Ganjám ..	6,680		19	2,026	8,706
Vizagapatam.	Rest-houses	149	....	..	..	289
	Houses for subordinate establishment	140				
	Total, Vizagapatam ..	289		..	..	289
Gódávari, Upper.	Rest-houses	408	Cart-roads	21	1,043	2,803
	Houses for subordinate establishment	688	Bridges	..	80	..
	Others	462	Others	24	122	..
	Total, Gódávari, Upper ..	1,558		45	1,245	2,803
Gódávari, Lower.	Rest-houses	2,410	Cart-roads	6	886	5,105
	Houses for subordinate establishment	300	A-VII (c)	..	..	362
	Others	1,509				
	Total, Gódávari, Lower ..	4,219		6	886	5,467
Kistna ..	Rest-houses	258	Cart-roads	¼	55	920
	Houses for subordinate establishment	367				
	Others	240				
	Total, Kistna ..	865		¼	55	920

* Excludes Rs 60, spent in Parlákimedi maliahs in repairing and extending the Gutokholi shed by two rooms and repairing the Potharbadi sheds.

FORM No. 70.

Madras Presidency.

and Buildings.

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS.	RS.	RS.
..	..	..	..	..	..
		Add A-VII (c) ..	..	..	840
	..		..	..	840
Rest-houses	3,440	Cart-roads	28	659	4,873
Houses for subordinate establishment	14	Others	8	15	..
Others	745		36	674	4,873
		Add A-VII (c) ..	..	..	185
	4,199		36	674	5,058
Rest-houses	342	Cart-roads	14	285	1,469
Houses for subordinate establishment	67	As per Accountant-General's audited figure	..	— 1	..
Others	301	Add A-VII (c) ..	..	..	52
	710				
As per Accountant-General's audited figure	+ 475				
	1,185		14	284	1,521
Rest-houses	298	Cart-roads	..	88	2,909
Houses for subordinate establishment	201	Others	..	97	..
Others	553		..	185	..
	1,052	As per Accountant-General's audited figure	..	+ 1	..
As per Accountant-General's audited figure	+ 1,671	Add A-VII (c) ..	..	..	585
	2,723		..	186	3,494
Rest-houses	1,006	Cart-roads	38	1,772	4,444
Houses for subordinate establishment	68	Bridges	..	25	..
Others	466	Others	5	133	..
	1,540		43	1,930	4,444
Add pay of establishment	974	A-VII (c) ..	..	..	102
	2,514		43	1,930	4,546
Rest-houses	240	Card-roads	20	340	1,135
Houses for subordinate establishment	50	Bridle-paths	1	50	..
Others	89		21	390	1,135
	379	Add A-VII (c) ..	..	..	409
Add cost of temporary establishment ..	366				
	745		21	390	1 544

Communications

District.	New work undertaken during the year. Buildings. Description of building.	Expenditure incurred.	Roads and paths. Road or path and object of the same.	Length of road or path.	Expenditure incurred.	Total expenditure on new work.
1	2	3	4	5	6	7
						Northern
		RS.		MLS.	RS.	RS.
Kurnool, East.	Rest-houses	4,792	Cart-roads	21½	3,310	18,302
	Houses for subordinate establishment	6,018	Others	..	57	..
	Others	4,125	A-VII (*c*)	..	..	1,634
	Total, Kurnool, East ..	14,935		21½	3,367	19,936
Kurnool, West.	Rest-houses	803	Cart-roads	⅓	195	7,097
	Houses for subordinate establishment	5,546	Add pay of supervisor	..	47	..
	Others	506				
	Total, Kurnool, West .	6,855		⅓	242	7,097
Bellary ..	Rest-houses	7,814	Cart-roads	16	560	10,612
	Houses for subordinate establishment	1,274	Bridle-paths	..	325	..
	Others	652	Deduct amount ordered as per Accountant-General's alteration memorandum.	..	— 13	..
	Total, Bellary .	9,740		16	872	10,612
Anantapur ..	Rest-houses	3,838	Cart-roads	¾	573	5,055
	Houses for subordinate establishment	320				
	Others	324				
	Total, Anantapur ..	4,482		¾	573	5,055
Total, Northern Circle.	Rest-houses	23,139	Cart-roads	85	20,271	83,721 (for the five items bracketed)
	Houses for subordinate establishment	29,299	Bridle-paths	..	325	
	Others	10,381	Bridges	..	80	
			Others	24	179	
			Add pay of establishment ..	..	47	
				109	20,902	83,721
			As per Accountant-General's audited figure	..	— 13	..
			A-VII (*c*)	..	..	1,996
	Total ..	62,819		109	20,889	85,717

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
Rest-houses	730	Cart-roads	27½	275	1,916
Houses for subordinate establishment	35	As per Accountant-General's audited figure	..	-- 56	..
Others	287				
			27½	219	1,916
	1,052	Add A-VII (c)	..	..	1,857
Add pay of establishment	646	As per Accountant-General's audited figure	..	..	+ 102
	1,698				
As per Accountant-General's audited figure	— 1				
	1,697		27½	219	3,875
Rest-houses	11	Cart-roads	5	139	536
Others	60	Add A-VII (c)	..	..	387
Add pay of establishment	401				
	472				
As per Accountant-General's audited figure	— 75				
	397		5	139	923
Rest-houses	800	Cart-roads	5	130	2,109
Houses for subordinate establishment	96	Add A-VII (c)	..	..	736
Others	659	As per Accountant-General's audited figure	..	..	- 1
Add pay of temporary establishment ..	404				
	1,959				
As per Accountant-General's audited figure	+ 20				
	1,979		5	130	2,844
Rest-houses	63	Bridle-paths	2	30	1,308
Others	34	Add cost of establishment	..	290	..
Add cost of establishment	831		2	320	1,308
	928	As per Accountant-General's audited figure	..	+ 30	..
As per Accountant-General's audited figure	+ 30		2	350	1,308
		Add A-VII (c)	..	..	123
		As per Accountant-General's audited figure	..	..	+ 1
	958		2	350	1,432
Rest-houses	6,930	Cart-roads	138	3,688	
Houses for subordinate establishment	531	Bridle-paths	3	80	
Others	3,194	Bridges	..	25	
Add pay of establishment	3,622	Others	13	245	20,699
		Add pay of establishment	...	290	
	14,277		154	4,328	
As per Accountant-General's audited figure	+ 2,120	As per Accountant-General's audited figure	..	- 26	
			154	4,302	20,699
		Add A-VII (c)	..	..	5,276
		As per Accountant-General's audited figure	..	..	+ 162
	16,397		154	4,302	(a)26,137

(a) Corrected in the Board's office.

Communications

District.	New works undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7

Central

		RS.		MLS.	RS.	RS.
Cuddapah, North.	Rest-houses	1,061	Cart-road	5½	929	2,090
	Houses for subordinate establishments	100	....	..	..	..
	Total, Cuddapah, North ..	1,161		5½	929	2,090
Cuddapah, East.	Rest-houses	146	....	..	..	878
	Houses for subordinate establishments	705	....	..	..	..
	Others	27	....	..	..	..
	Total, Cuddapah, East ..	878		..	..	878
Cuddapah, South.	Rest-houses	793	Bridle-path	3	198	1,020
	Houses for subordinate establishments	29	....	..	..	..
	Total, Cuddapah, South ..	822		3	198	1,020
Nellore ..	Rest-houses	1,535	Cart-road	..	267	2,032
	Houses for subordinate establishments	230	....	..	..	..
	Total, Nellore ..	1,765		..	267	2,032
Chingleput ..	Rest-houses	1,816	Bridle-path	2	282	2,410
	Others	300	Cart-road	..	12	..
	Total, Chingleput ..	2,116	Total ..	2	294	2,410
Arcot, North.	Rest-house	211	Cart-road	44⅓	652	3,048
			Bridle-path	6	369	..
			Ghat-road	2½	1,816	..
	Total, Arcot, North ..	211	Total ..	53	2,837	3,048
Arcot, South.	Houses for subordinate establishments	3,609	Cart-road	..	24	5,290
	Others	1,657				
	Total, Arcot, South ..	5,266	Total ..	..	24	5,290

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle.					
	RS.		MLS.	RS.	RS.
Rest-houses	186	Cart-road	3	201	1,006
Houses for subordinate establishments	283	Add A-VII (c) ..	..	..	319 *+ 7
	469				
Deduct cash recoveries	2				
	467				
Add cost of temporary establishments.	335 *+ 3				
	805		3	201	1,332
Rest-houses	60	Cart-road	22	865	1,703
		Bridle-path	3	200 *+ 19	..
Houses for subordinate establishments	196	Add A-VII (c) ..	..	..	19
	256				
Add cost of temporary establishments.	363				
	619		25	1,084	1,722
Rest-houses	464	Bridle-path	..	9	703
Houses for subordinate establishments.	9				
	473				
Add cost of temporary establishments.	221				
	694		..	9	703
Rest-houses	224	....	..	*— 28	1,275
Houses for subordinate establishments	252	Add A-VII (c) ..	..	..	254
	476				
Add cost of temporary establishments..	850 *— 23				
	1,303		..	— 28	1,529
Rest-house	96	Cart-road	8	429	1,611
Houses for subordinate establishment	98	Bridle-path	..	15	..
Others	39	Ghat-road	4	264	..
	233	Add A-VII (c) ..	..	..	49
Add cost of temporary establishments..	670				
	903	Total ..	12	708	1,660
Rest-houses	726	Cart-road	26	175	2,863
Houses for subordinate establishments	78	Bridle-path	4½	113 *— 18	..
Others	19	Add A-VII (c) ..	..	..	8
	823 *+1,770				
	2,593	Total ..	30½	270	2,871
Head-quarter houses	67	Bridle-path	7	250	2,232
Rest-houses	1,182	Add A-VII (c) ..	..	..	2,634
Others	160				
	1,409				
Add pay of temporary establishments.	573				
Total ..	1,982	Total ..	7	250	4,866

* Added or deducted as per Accountant-General's audited figures.

Communications

District.	New works undertaken during the year.					
	Buildings.		Roads and paths.			Total expenditure on new work.
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
						Central
		RS.		MLS.	RS.	RS.
Salem, North.	Rest-houses	5,415	Cart-road	44½	11,772	22,534
	Houses for subordinate establishments	4,709	Bridle-path	3	110	..
	Others	528				
	Total, Salem, North ..	10,652	Total ..	47½	11,882	22,534
Salem, South.	Rest-houses	1,129	Cart-road	2	334	3,157
	Houses for subordinate establishments	1,214	Bridle-path	5	480	..
	Total, Salem, South ..	2,343	Total ..	7	814	3,157
Trichinopoly.	Others	38	....	..	..	38
	Total, Trichinopoly ..	38	Total ..	..	..	38
Tanjore ..	Rest-houses	348	....	..	..	489
	Others	141				
	Total, Tanjore ..	489	Total ..	..	..	489
Guntúr ..	Rest-houses	727	....	..	..	963
	Others	236				
	Total, Guntúr ..	963	Total ..	..	..	963
Total, Central Circle.	Rest-houses	13,181	Cart-road	96½	13,990	} 43,949
	Houses for subordinate establishments	10,596	Bridle-path	19	1,439	
	Others	2,927	Ghat-road	2½	1,816	
	Total, Central Circle ..	26,704	Total ..	118	17,245	43,949
						Southern
South Canara.	(*b*) Rest-houses	1,043	(*a*) Cart-roads	9	1,596	..
	(*c*) Houses for subordinate establishments	46				
	(*d*) Others	18				
	Total, South Canara ..	1,107	Total ..	9	1,596	2,703

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
Rest-houses	1,613	Cart-road	86	2,214	4,648
Houses for subordinate establishments	55	Bridle-path	15	40	..
Others	276	Ghat-road	..	309	..
	1,944	Add A-VII (c) ..	..	..	*+1,100
Add cost of temporary establishments.	141				
Total ..	2,085	Total ..	101	2,563	5,748
Rest-houses	363	Bridle-path	8	320	1,412
Houses for subordinate establishments	4	Ghat-road	..	5	..
	*+720	* Add A-VII (c) ..	..	..	52
Total ..	1,087	Total ..	8	325	1,464
Rest-houses	119	Bridle-path	1	51	363
Houses for subordinate establishments	113			*—333	..
Others	10	Add A-VII (c) ..	..	..	418
	242				
Deduct cash recoveries..	4				
	238				
Add cost of temporary establishments.	413				
	*—6				
Total ..	645	Total ..	1	*—282	781
Rest-houses	11	....	..	..	168
Houses for subordinate establishments	15				
Others	4				
	*+138		..	..	..
Total ..	168	Total ..	..	..	168
Rest-houses	648	Cart-road	5	172	2,340
Others	11			*+32	..
		Add A-VII (c) ..	..	..	417
	659				*+69
Add cost of temporary establishments	1,151				
	*+326				
Total ..	2,136	Total ..	5	204	2,826
Rest-houses	5,692	Cart-road	150	4,056	20,336
Head-quarter houses	67	Bridle-path	38½	998	
Houses for subordinate establishments	1,103	Ghat-road	4	578	
Others	519				
Add cost of temporary establishment.	4,717				
Deduct cash recovery	6	Add A-VII (c) ..	..	..	4,170
Add direction charges	12				
Variation as per Accountant-General's audited figures.	*+2,928	Variation as per Accountant-General audited figures.	..	*—328	*+1,176
Total ..	15,032	Total ..	193	5,304	25,682
Circle.					
(a) Head-quarter houses	60	(a) Cart-roads	21	814	1,751
(b) Rest-houses	223	(d) Bridges	..	4	
(c) Houses for subordinate establishments	236			818	
(d) Others	206	Deduct cash recovery of service payments		105	
Add pay of watchers ..	358			713	
	1,083				
Deduct cash recovery of service payments	5	Add A-VII (c) ..	..	..	619
Total ..	1,078	Total ..	21	713	2,410

* Added or deducted as per Accountant-General's audited figures.

Communications.

District.	New work undertaken during the year. Buildings. Description of building.	Expenditure incurred.	Roads and paths. Road or path and object of the same.	Length of road or path.	Expenditure incurred.	Total expenditure on new work.
1	2	3	4	5	6	7
						Southern
		RS.		MLS.	RS.	RS.
Malabar, North.	(*b*) Rest-houses	1,618	(*a*) Cart-roads	1	70	..
	(*c*) Houses for subordinate establishments	1,475	(*e*) Others	5	81	..
	(*d*) Others	164				
	Total, Malabar, North ..	3,257	Total ..	6	151	3,408
Malabar, South.	(*a*) Head-quarter houses ..	122	(*b*) Bridle-paths	19	260	..
	(*b*) Rest-houses	110				
	(*c*) Houses for subordinate establishments	365				
	Total, Malabar, South ..	597	Total ..	19	260	857
The Nilgiris.	(*b*) Rest-houses	4,658	(*a*) Cart-roads	1	154	..
	(*c*) Houses for subordinate establishments	810	(*d*) Bridges	..	35	..
	(*d*) Others	490				
	Total, Nilgiris, The ..	5,958	Total ..	1	189	6,147
Kollegal ..	(*b*) Rest-houses	2,491	(*a*) Cart-roads	..	12	..
	(*c*) Houses for subordinate establishments	1,170				
	(*d*) Others	106				
	Total, Kollegal ..	3,767	Total ..	..	12	3,779
Coimbatore, North.	(*b*) Rest-houses	1,447	....	..	..	..
	(*c*) Houses for subordinate establishments	210				
	(*d*) Others	819				
	Total, Coimbatore, North ..	2,476	Total ..	..	..	2,476
Coimbatore, Central.	(*a*) Head-quarter houses ..	368	....	..	..	..
	(*b*) Rest-houses	303	....	..	..	..
	(*d*) Others	307	....	..	..	..
	Total, Coimbatore, Central ..	978	Total ..	..	..	978
Coimbatore, South.	(*b*) Rest-houses	3,217	(*a*) Cart-roads	10	2,097	..
	(*c*) Houses for subordinate establishments	1,552	(*e*) Others	..	486	..
	(*d*) Others	1,463				
	Total, Coimbatore, South ..	6,232	Total ..	10	2,583	8,815

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
(a) Head-quarter houses	162	(a) Cart-roads	86	1,876	
(b) Rest-houses	810	(b) Bridle-paths	15	36	
(c) Houses for subordinate establishments	44	(c) Ghat-roads	1	13	4,078
(d) Others	738	(d) Bridges	..	108	
		(e) Others	5	88	
Add pay of watchers ..	204 † — 1	Add A-VII (c) ..	..	..	104
Total ..	1,957	Total ..	107	2,121	4,182
(a) Head-quarter houses	93	(a) Cart-roads	17	606	1,466
(b) Rest-houses	223	(b) Bridle-paths	52	226	
(c) Houses for subordinate establishments	219				
Add pay of watchers ..	102 † — 3	Add A-VII (c) ..	..	..	947
Total ..	634	Total ..	69	832	2,413
(a) Head-quarter houses	39	(a) Cart-roads	53	2,553	3,692
(b) Rest-houses	622				
(c) Houses for subordinate establishments	445				
(d) Others	33	Add A-VII (c) ..	..	..	218
Total ..	1,139	Total ..	53	2,553	3,910
(a) Head-quarter houses	53	(a) Cart-roads	30	2,960 † — 9	3,661
(b) Rest-houses	211				
(d) Others	94				
Add pay of watchers ..	353 † — 1	Add A-VII (c) ..	..	..	121
Total ..	710	Total ..	30	2,951	3,782
(a) Head-quarter houses	298	(a) Cart-roads	64	2,910	
(b) Rest-houses	455	(c) Ghat-roads	44	3,182	
(c) Houses for subordinate establishments	173	(d) Bridges	..	354	
		Add cost of temporary establishment.	..	188	
(d) Others	453			6,634	8,854
Add pay of watchers ..	1,031 * + 2				
	2,412	Deduct cash recovery of service payments.	..	158	
		Add A-VII (c) ..	..	..	884
Deduct cash recovery of service payments	34				
Total ..	2,378	Total ..	108	6,476	9,738
(b) Rest-houses	97	(a) Cart-roads	20	1,901	2,174
(d) Others	88	(d) Bridges	..	102	
	†—15	(e) Others	..	6	
		Add A-VII (c) ..	..	† — 5	70
Total ..	170	Total ..	20	2,004	2,244
(a) Head-quarter houses	58	(a) Cart-roads	14	1,809	3,205
(b) Rest-houses	205	(c) Ghat-roads	..	7	
(c) Houses for subordinate establishments	345	(e) Others	8	107	
		Pay of temporary establishment ..	..	324	..
(d) Others	242				
Add pay of watchers ..	108	Add A-VII (c) ..	..	..	575
Total ..	958	Total ..	22	2,247	3,780

* Added as per Accountant-General's figures. † Deducted as per Accountant-General's figures.

Communications

District.	New work undertaken during the year. Buildings. Description of building.	Expenditure incurred.	Roads and paths. Road or path and object of the same.	Length of road or path.	Expenditure incurred.	Total expenditure on new work.
1	2	3	4	5	6	7
						Southern
		RS.		MLS.	RS.	RS.
Madura ..	(*b*) Rest-houses	1,454	(*a*) Cart-roads	21	3,971	..
	(*c*) Houses for subordinate establishments	1,740	(*b*) Bridle-paths	22	2,456	..
	(*d*) Others	624				
	Total, Madura ..	3,818	Total ..	43	6,427	10,245
Tinnevelly ..	(*b*) Rest-houses	957	(*a*) Cart-roads	4	1,101	..
	(*c*) Houses for subordinate establishments	2,223	(*b*) Bridle-paths	8	2,040	..
			(*c*) Ghat-roads	1	224	..
			(*e*) Others..	..	185	
	Total, Tinnevelly ..	3,180	Total ..	13	3,550	6,730
Direction ..	....	..	....	..	..	..
Total, Southern Circle.	(*a*) Head-quarter houses ..	490	(*a*) Cart-roads	46	9,001	46,138
	(*b*) Rest-houses	17,298	(*b*) Bridle-paths	49	4,756	
	(*c*) Houses for subordinate establishments	9,591	(*c*) Ghat-roads	1	224	
	(*d*) Others	3,991	(*d*) Bridges	..	35	
			(*e*) Others..	5	752	
	Total, Southern Circle ..	31,370	Total ..	101	14,768	46,138
Total, Presidency.	(*a*) Head-quarters	490	(*a*) Cart-roads	227½	43,262	..
	(*b*) Rest-houses	53,618	(*b*) Bridle-paths..	68	6,520	..
	(*c*) Houses for subordinate establishments	49,486	(*c*) Ghat-roads	3½	2,040	..
	(*d*) Others	17,299	(d) Bridges	..	115	..
			(*e*) Others	29	931	..
				328	52,868	..
			Add pay of temporary establishment	..	47	..
			Variations as per Accountant-General's audited figure ..	..	— 13	..
	Total ..	1,20,893	Total ..	328	52,902	..

and Buildings—*cont.*

Repairs executed during the year.					
Buildings.		Roads and paths.			Total expended on repairs.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	
8	9	10	11	12	13
Circle—cont.					
	RS.		MLS.	RS.	RS.
(*a*) Head-quarter houses	56	(*a*) Cart-roads	51	2,342	} 4,013
(*b*) Rest-houses	211	(*b*) Bridle-paths	..	199	
(*c*) Houses for subordinate establishments	300				
Add pay of watchers ..	840				
	*+ 65	Add A-VII (*c*) ..	..	..	707
Total ..	1,472	Total ..	51	2,541	4,720
(*b*) Rest-houses	796	(*a*) Cart-roads	49	951	} 2,927
(*c*) Houses for subordinate establishments	135	(*b*) Bridle-paths	10	114	
		(*c*) Ghat-roads	18	720	
(*d*) Others	137	(*d*) Bridges	..	75	
			..	† — 1	
		Add A-VII (*c*) ..	..	..	299
Total ..	1,068	Total ..	77	1,859	3,226
(*d*) Others	40	....	..	..	40
(*a*) Head-quarter houses	819	(*a*) Cart-roads	405	18,722	} 35,901
(*b*) Rest-houses	3,853	(*b*) Bridle-paths	77	575	
(*c*) Houses for subordinate establishments	1,897	(*c*) Ghat-roads	63	3,922	
		(*d*) Bridges	..	643	
(*d*) Others	2,031	(*e*) Others	13	201	
	8,600		558	24,063	
Add pay of watchers	+ 2,996	Add pay of Temporary establishment ..	..	+ 512	
Deduct cash recovery of service payments	— 39	Deduct cash recovery of service payments	..	— 263	
Variations as per Accountant-General's audited figures	+ 47	Variations as per Accountant-General's audited figures	..	— 15	
			..	24,297	..
		Add A-VII (*c*) ..	..	..	4,544
Total ..	11,604	Total ..	558	24,297	40,445
(*a*) Head-quarter houses	886	(*a*) Cart-roads	693	26,466	} 76,766
(*b*) Rest-houses	16,475	(*b*) Bridle-paths	118½	1,653	
(*c*) Houses for subordinate establishments	3,531	(*c*) Ghat-roads	67	4,500	
		(*d*) Bridges	..	668	
(*d*) Others..	5,744	(*e*) Others	26	446	
	26,636		904½	33,733	76,766
Add pay of temporary establishment..	11,335	Add pay of temporary establishment ..	..	802	..
,, Direction charges	12	Variations as per Accountant-General's audited figures	..	— 369	..
,, as per Accountant-General's audited figure	5,095	Deduct cash recovery made	..	263	..
Deduct cash recovery	45				
		Add A-VII (*c*) ..	..	..	17,324
Total ..	43,033	Total ..	904½	33,903	94,090

* Added as per Accountant-General's figures. † Deducted as per Accountant-General's figures

ANNUAL

Forest Department,

REGISTER of Breaches of Forest

District.		Cases pending from 1908–1909.	New cases of the year.					Total cases.
			Injury to forest by fire.	Un-authorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Ganjám ..	A	* 90	2	(a) 198	24	6	230	320
	B	* 85	4	(b) 356	56	(c) 7	423	508
	C	..	..	40	..	..	(h) 40	..
	Total ..	175	6	594	80	13	693	828
Vizagapatam ..	A	* 12	3	100	8	3	114	126
	B	* 7	1	218	59	15	293	300
	C	..	..	..	..	..	..	..
	Total ..	19	4	318	67	18	407	426
Gódávari, Upper.	A	1	..	5	..	1	6	7
	B	..	..	9	1	..	10	10
	C	..	..	..	..	..	..	..
	Total ..	1	..	14	1	1	16	17
Gódávari, Lower.	A	* 12	4	21	8	4	37	49
	B	* 35	..	164	54	35	253	288
	C	..	96	11	..	..	107	..
	Total ..	47	100	196	62	39	397	337
Kistna ..	A	* 22	..	48	23	4	75	97
	B	* 41	..	83	147	17	247	288
	C	..	..	7	8	4	19	..
	Total ..	63	..	138	178	25	341	385
Kurnool, East ..	A	26	..	48	57	31	136	162
	B	46	..	40	92	71	203	249
	C	..	..	3	1	..	4	..
	Total ..	72	..	91	150	102	343	411
Kurnool, West ..	A	71	1	185	65	38	289	360
	B	56	..	149	123	18	290	346
	C	..	..	33	41	5	79	..
	Total ..	127	1	367	229	61	658	706
Bellary ..	A	37	1	38	34	..	73	110
	B	265	..	342	458	19	819	1,084
	C	..	10	13	46	..	69	..
	Total ..	302	11	393	538	19	961	1,194

A = Cases taken into Court. B = Cases

* The variations between the closing balance of 1908–1909 and

† Cases withdrawn under the orders

(a) Excludes 25 cases in the Parlákimedi Maliahs.
(b) Excludes 60 do.
(c) Excludes 4 do.
(h) Excludes 14 undetected cases in the Parlákimedi Maliahs.

FORM No. 71.

Madras Presidency.

Rules during 1909–1910.

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE.						
(*d*) 188	519	(*f*) 31	128	219 † 4	647 † 7	97
(*e*) 343	1,002	..	..	343 †(*g*) 94	1,002 † 370	71
..	..	..	..	..	..	..
531	1,521	31	128	562 † 98	1,649 † 377	168
107	351	8	13	115	364	11
258	668	..	..	258 † 3	668 † 3	39
..	..	..	..	..	..	..
365	1,019	8	13	373 † 3	1,032 † 3	50
5	12	..	..	5	12	2
10	27	..	..	10	27	..
..	..	..	..	..	..	..
15	39	..	..	15	39	2
26	96	3	11	29 † 1	107 † 2	19
223	498	..	..	223 † 34	498 † 100	31
..	..	..	..	..	..	..
249	594	3	11	252 † 35	605 † 102	50
64	292	4	6	68	298	29
230	632	..	..	230	632	58
..	..	..	..	..	..	..
294	924	4	6	298	930	87
124	369	10	31	134	400	28
177	414	..	..	177 † 42	414 † 271	30
..	..	..	..	..	..	..
301	783	10	31	311 † 42	814 † 271	58
240	1,020	60	209	300	1,229	60
254	750	..	..	254 † 42	750 † 98	50
..	..	..	..	..	..	..
494	1,770	60	209	554 † 42	1,979 † 98	110
91	381	12	64	103	445	7
916	2,718	..	..	916 † 87	2,718 † 276	81
..	..	..	..	..	..	..
1,007	3,099	12	64	1,019 † 87	3,163 † 276	88

compounded. C = Cases undetected.
these figures are due to transfers between heads A and B.
of the District Forest-officer.

(*d*) Excludes 22 cases in the Parlákimedi Maliahs in which conviction was secured.
(*e*) Excludes 28 compounded cases in the Parlákimedi Maliahs.
(*f*) Excludes 2 cases of the Parlákimedi Maliahs in which prosecution failed.
(*g*) Excludes 14 cases withdrawn in the Parlákimedi Maliahs.

Register of Breaches of

District.		Cases pending from 1908–1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Un-authorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								NORTHERN
Anantapur ..	A	278	..	203	188	19	410	688
	B	..	1	190	269	5	465	465
	C	..	27	..	..	..	27	..
	Total ..	278	28	393	457	24	902	1,153
Grand Total ..	A	549	11	846	407	106	1,370	1,919
	B	535	6	1,551	1,259	187	3,003	3,538
	C	..	133	107	96	9	345	..
	Grand Total ..	1,084	150	2,504	1,762	302	4,718	5,457
								CENTRAL
Cuddapah, North ..	A	(c) 16	..	30	23	1	54	70
	B	(c) 29	..	152	68	..	220	249
	C	..	..	4	..	..	4	..
	Total ..	45	..	186	91	1	278	319
Cuddapah, East ..	A	(c) 18	3	58	30	..	91	109
	B	(c) 72	..	310	156	2	468	540
	C	..	88	28	1	1	118	..
	Total ..	90	91	396	187	3	677	649
Cuddapah, South ..	A	(c) 113	..	79	58	..	137	250
	B	(c) 96	..	114	133	7	254	350
	C	..	..	..	..	..	..	..
	Total ..	209	..	193	191	7	391	600
Nellore	A	(c) 121	1	102	137	6	246	367
	B	(c) 204	..	458	647	19	1,124	1,328
	C	..	..	7	69	3	79	..
	Total ..	325	1	567	853	28	1,449	1,695
Chingleput ..	A	8	1	15	14	4	34	42
	B	34	1	558	245	18	822	856
	C	..	..	4	..	..	4	..
	Total ..	42	2	577	259	22	860	898
Arcot, North ..	A	(c) 167	4	388	195	14	601	768
	B	(c) 383	1	1,721	1,142	47	2,911	3,294
	C	..	210	2	..	..	212	..
	Total ..	(d) 550	215	2,111	1,337	61	3,724	4,062

A = Cases taken into Court. B = Cases compounded. C = Cases undetected.

(b) Transferred to the

(c) The variations between the closing balance of 1908–1909 and the

(d) The variations between the closing balance of 1908–1909 and the opening balance of this

(e) The discrepancy between the total of the figures in

(f) The discrepancy between the figure entered in

Rules during 1909-1910—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
403	878	98	225	501	1,103	125
				† 62	† 126	
465	1,394	..	..	465	1,394	..
..	..	..	..	..	..	..
868	2,272	98	225	966	2,497	125
				† 62	† 126	
1,248	3,918	226	687	1,474	4,605	378
				† 67	† 135	
2,876	8,103	..	..	2,876	8,103	360
				† 302	† 1,118	
..	..	..	..	..	..	..
4,124	12,021	226	687	4,350	12,708	738
				† 369	† 1,253	
CIRCLE.						
54	107	5	37	59	144	11
168	487	..	..	168	487	59
				† 18	† 36	
..	..	..	..	(b) 4	..	..
222	594	5	37	227	631	70
				† 18	† 36	
				(b) 4	..	
52	160	11	70	63	230	46
410	839	..	..	410	839	75
				† 55	† 129	
..	..	..	..	..	..	..
462	999	11	70	473	1,069	121
				† 55	† 129	
98	236	28	118	126	354	124
281	513	..	..	281	513	32
				† 37	† 50	
..	..	..	..	..	..	..
379	749	28	118	407	867	156
				† 37	† 50	
239	(e) 738	28	(e) 71	267	(e) 828	86
				† 14	† 17	
845	(f) 1,922	..	..	845	(f) 1,923	351
				† 132	† 324	
..	..	..	..	..	..	..
1,084	2,660	28	71	1,112	2,751	437
				† 146	† 341	
26	115	8	39	34	154	8
722	1,639	..	..	722	1,639	67
				† 67	† 168	
..	..	..	..	..	..	..
748	1,754	8	39	756	1,793	75
				† 67	† 168	
514	1,193	29	81	543	1,274	223
				† 2	† 6	
2,737	4,727	..	..	2,737	4 727	465
				† 92	† 173	
..	..	..	..	..	..	..
3,251	5,920	29	81	3,280	6,001	688
				† 94	† 179	

† Cases withdrawn under the orders of the District Forest-Officer.

Revenue Department.
opening balance of this year are due to transfers between classes A and B.
year are due to the omission of 23 under A and 13 under B in the last year's district return.
columns 10 and 12 and the figure in column 14 has not been explained.
column 10 and that in column 14 has not been explained.

Register of Breaches of Forest

District.		Cases pending from 1908-1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Un-authorized felling or appropria-tion of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
CENTRAL								
Arcot, South	A	(c) 168	..	302	49	9	360	528
	B	(c) 418	3	1,744	611	35	2,393	2,811
	C	(c) 7	33	82	..	3	118	..
	Total ..	593	36	2,128	660	47	2,871	3,339
* Salem, North	A	51	4	241	49	26	320	371
	B	203	1	488	168	25	682	885
	C	..	..	..	4	..	4	..
	Total ..	254	5	729	221	51	1,006	1,256
* Salem, South	A	81	5	180	44	19	248	329
	B	80	1	283	110	28	422	502
	C	..	82	9	..	..	91	..
	Total ..	161	88	472	154	47	761	831
Trichinopoly	A	(c) 37	1	73	51	2	127	164
	B	(c) 297	..	1,234	542	10	1,786	2,083
	C	(c) 12	..	16	19	1	36	..
	Total ..	(d) 346	1	1,323	612	13	1,949	2,247
* Tanjore ..	A	2	..	5	4	1	10	12
	B	149	..	583	72	10	665	814
	C	..	..	24	10	3	37	..
	Total ..	151	..	612	86	14	712	826
* Guntúr ..	A	(c) 42	..	63	70	7	140	182
	B	(c) 179	..	327	433	16	776	955
	C	..	..	..	..	..	..	..
	Total ..	(e) 221	..	390	503	23	916	1,137
Total	A	824	19	1,536	724	89	2,368	3,192
	B	2,144	7	7,972	4,327	217	12,523	14,667
	C	19	413	176	103	11	703	..
	Grand Total ..	2,987	439	9,684	5,154	317	15,594	17,859
SOUTHERN								
Reserved								
South Canara	A	(f) 40	18	120	83	18	239	279
	B	(f) 134 (g) −10	17	570	59	28	674	798
	C	..	169	..	..	..	169	..
	Total ..	164	204	690	142	46	1,082	1,077

A = Casses taken into Court. B = Cases

* Figures against these districts do not include offences in unreserved

† Cases withdrawn under the

(b) Transferred to the

(c) The variations between the closing balance of 1908–1909 and the opening

(d) The variation between the closing balance of the previous year and the opening balance of this year is

(e) The variation between the closing balance of the previous year and the opening balance of this year is

(f) The variations between the closing balance of 1908–1909 and these

(g) Transferred

(h) The discrepancy between the total of the figures in columns 10 and 12

Rules during 1909–1910—*cont.*

Disposed of during the year.						Cases pending at close of year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
365	859	27	60	392 † 6	919 † 9	130
2,050	4,157	..	..	2,050 † 210	4,157 † 314	551
..	..	..	..	..	..	..
2,415	5,016	27	60	2,442 † 216	5,076 † 323	681
166	343	45	144	211	487	160
752	1,388	..	..	752 † 37	1,388 ..	96
..	..	..	..	..	..	..
918	1,731	45	144	963 † 37	1,875 ..	256
213	822	24	115	237 † 15	937 † 59	77
323	1,090	..	..	323 † 43	1,090 † 100	136
..	..	..	..	..	..	..
536	1,912	24	115	560 † 58	2,027 † 159	213
79	146	37	166	116	312	48
1,691	3,273	..	..	1,691 † 28	3,273 † 41	364
..	..	..	..	..	..	..
1,770	3,419	37	166	1,807 † 28	3,585 † 41	412
7	13	3	3	10	16	2
712	889	..	..	712	889	102
..	..	..	..	..	..	..
719	902	3	3	722	905	104
122	414	12	61	134	475	48
651	2,499	91	450	742	2,949	213
..	..	..	..	..	..	..
773	2,913	103	511	876	3,424	261
1,935	(*h*) 5,146	257	(*h*) 965	2,192 † 37	(*h*) 6,130 † 91	963
11,342	(*h*) 23,423	91	(*h*) 450	11,433 † 719 (*b*) 4	(*h*) 23,874 † 1,335 ..	2,511
..	..	..	..	..	..	..
13,277	(*h*) 28,569	348	(*h*) 1,415	13,625 † 756 (*b*) 4	(*h*) 30,004 † 1,426 ..	3,474 ..
CIRCLE. *Lands.*						
63	127	22	47	85 † 186	174 † 390	8
642	1,540	..	..	642	1,540	156
..	..	..	..	..	..	..
705	1,667	22	47	727 † 186	1,714 † 390	164

C = Cases undetected.

compounded.
lands as information has not been received from Collectors.
orders of the District Forest Officer.
Revenue Department.
balance of this year are due to transfers between classes A and B.
due to the transfer of 140 cases relating to offences of poramboke tree-felling to the Revenue Divisional-Officers.
due to the transfer of 41 cases to the Revenue Department and to the inclusion of two undetected cases of last year.
figures are due to transfers between heads A and B.
to unreserved lands.
and the figure in column 14 has not been explained.

Register of Breaches of Forest

District.		Cases pending from 1908-1909.	New cases of the year.					Total cases.
			Injury to forests by fire.	Un-authorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	
1		2	3	4	5	6	7	8
								SOUTHERN *Reserved*
North Malabar ..	A	2	..	2	1	..	3	5
	B	1	..	1	2	1	4	5
	C	..	1	1	..	..	2	..
	Total ..	3	1	4	3	1	9	10
South Malabar ..	A	(*a*) 3	2	6	2	5	15	18
	B	(*a*) 2	..	4	4	..	8	10
	Total ..	5	2	10	6	5	23	28
The Nilgiris ..	A	(*a*) 16	2	70	19	16	107	123
	B	(*a*) 15	6	94	32	14	146	161
	C	..	12	2	8	1	23	..
	Total ..	31	20	166	59	31	276	284
Kollegal	A	16	6	31	43	26	106	(*c*) 122
	B	21	..	87	128	13	228	249
	C	..	1	..	..	..	1	..
	Total ..	37	7	118	171	39	335	371
Coimbatore, North.	A	72	5	123	55	15	198	270
	B	80 (*b*)—26	..	142	153	15	310	364
	C	..	25	..	..	..	25	..
	Total ..	126	30	265	208	30	533	634
Coimbatore, Central.	A	(*a*) 14	2	119	68	26	215	229
	B	(*a*) 42	1	105	86	21	213	255
	C	..	9	..	..	..	9	..
	Total ..	56	12	224	154	47	437	484
Coimbatore, South.	A	7	..	42	9	3	54	61
	B	..	..	75	25	15	115	115
	C	..	10	..	..	..	10	..
	Total ..	7	10	117	34	18	179	176
Madura	A	82	1	68	23	32	124	206
	B	219	1	452	228	53	734	953
	C	..	28	..	..	..	28	..
	Total ..	301	30	520	251	85	886	1,159
Tinnevelly ..	A	16	1	15	10	5	31	47
	B	131	1	365	327	51	744	875
	C	..	41	1	216	1	259	..
	Total ..	147	43	381	553	57	1,034	922

A = Cases taken into Court. B = Cases

(*a*) The variations between the closing balance of 1908-1909

(*b*) Transferred to

(*c*) Corrected in the Board's office

Rules during 1909-1910—*cont.*

Disposed of during the year.						
Convictions.		Acquittals.		Total.		Cases pending at the close of the year.
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—*cont.*						
Lands—cont.						
1	1	..	..	1	1	4
4	8	..	..	4	8	1
..	..	..	..	..	..	..
5	9	..	..	5	9	5
9	19	..	..	9	19	7
				† 2	† 15	
9	22	..	..	9	22	1
18	41	..	..	18	41	8
				† 2	† 15	
82	313	6	12	88	325	35
106	244	..	..	106	244	25
				† 30	† 62	
..	..	..	..	..	..	..
188	557	6	12	194	569	60
				† 30	† 62	
74	189	17	40	91	229	15
				† 16	† 42	
211	416	..	..	211	416	38
..	..	..	..	..	..	..
285	605	17	40	302	645	53
				† 16	† 42	
199	748	9	21	208	769	60
				† 2	† 2	
286	745	..	..	286	745	53
				† 25	† 91	
..	..	..	..	..	..	..
485	1,493	9	21	494	1,514	113
				† 27	† 93	
180	524	10	35	190	559	39
190	648	..	..	190	648	51
				† 14	† 50	
..	..	..	..	..	..	..
370	1,172	10	35	380	1,207	90
				† 14	† 50	
50	139	..	..	50	139	11
55	176	..	..	55	176	45
				† 15	† 55	
..	..	..	..	..	..	..
105	315	..	..	105	315	56
				† 15	† 55	
102	252	16	69	118	321	88
647	2,175	..	..	647	2,175	236
				† 70	† 93	
..	..	..	..	..	..	..
749	2,427	16	69	765	2,496	324
				† 70	† 93	
39	111	2	4	41	115	6
669	1,584	..	..	669	1,584	116
				† 90	† 340	
..	..	..	..	..	..	..
708	1,695	2	4	710	1,699	122
				† 90	† 340	

compounded. C = Cases undetected.
and these figures are due to transfers between heads A and B.
unreserved lands.

† Withdrawn under the orders of the District Forest or Revenue Divisional Officer.

Register of Breaches of Forest

District.		Cases pending from 1908–1909.	New cases of the year. Injury to forests by fire.	Un-authorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.
1		2	3	4	5	6	7	8
								SOUTHERN
								Reserved
Total for reserved forests.	A	268	37	596	313	146	1,092	1,360
	B	609	26	1,895	1,044	211	3,176	3,785
	C	..	296	4	224	2	526	..
	Total ..	877	359	2,495	1,581	359	4,794	5,145
								Unreserved
South Canara ..	A	3	..	23	..	..	23	26
	B	(a) 10	..	69	..	..	69	79
	Total ..	13	..	92	..	..	92	105
Malabar, North ..	A	..	..	3	..	..	3	3
	B	..	..	5	..	..	5	5
	C	..	..	..	..	2	2	..
	Total ..	..	..	8	..	2	10	8
Coimbatore, North.	A	1	..	5	..	..	5	6
	B	(a) 26	..	15	..	..	15	41
	Total ..	27	..	20	..	..	20	47
Tinnevelly ..	B	..	..	49	..	..	49	49
Total for unreserved lands.	A	4	..	31	..	..	31	35
	B	36	..	138	..	..	138	174
	C	..	..	..	..	2	2	..
	Total ..	40	..	169	..	2	171	209
Total, Southern Circle, for reserved forests and unreserved lands	A	272	37	627	313	146	1,123	1,395
	B	645	26	2,033	1,044	211	3,314	3,959
	C	..	296	4	224	4	528	..
	Total ..	917	359	2,664	1,581	361	4,965	5,354
Total, Presidency ..	A	1,645	67	3,009	1,444	341	4,861	6,506
	B	3,324	39	11,556	6,630	615	18,840	22,164
	C	19	842	287	423	24	1,576	..
Grand total, Presidency ..		4,988	948	14,852	8,497	980	25,277	28,670

A = Cases taken into Court. B = Cases compounded. C = Cases undetected.

(a) Transferred to

Rules during 1909–1910—*cont.*

Disposed of during the year.						Cases pending at the close of the year.
Convictions.		Acquittals.		Total.		
Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
9	10	11	12	13	14	15
CIRCLE—cont.						
Lands—cont.						
799	2,423	82	228	881 † 206	2,651 † 449	273
2,819	7,558	..	..	2,819 † 244	7,558 † 691	722
..	..	..	..	..	..	..
3,618	9,981	82	228	3,700 † 450	10,209 † 1,140	995
Lands.						
6	6	9	19	15 † 11	25 † 11	..
48	65	..	..	48	65	31
54	71	9	19	63 † 11	90 † 11	31
3	3	..	..	3	3	..
5	5	..	..	5	5	..
..	..	..	..	..	..	..
8	8	..	..	8	8	..
4	4	2	5	6	9	..
22	29	..	..	22	29	19
26	33	2	5	28	38	19
48	83	..	..	48	83	1
13	13	11	24	24 † 11	37 † 11	..
123	182	..	..	123	182	51
..	..	..	..	..	..	..
136	195	11	24	147 † 11	219 † 11	51
812	2,436	93	252	905 † 217	2,688 † 460	273
2,942	7,740	..	..	2,942 † 244	7,740 † 691	773
..	..	..	..	..	..	..
3,754	10,176	93	252	3,847 † 461	10,428 † 1,151	1,046
3,995	11,500	576	1,904	4,571 † 321	13,404 † 686	1,614
17,251	39,717	..	..	17,251 † 1,265 (*b*) 4	39,717 † 3,144 ..	3,644
..	..	..	..	..	..	..
21,246	51,217	576	1,904	21,822 † 1,586 (*b*) 4	53,121 † 3,830 ..	5,258

unreserved lands.

† Withdrawn under the orders of the District Forest or Revenue Divisional Officer.

APPENDIX to Form No. 71 (Statement No. II prescribed by the Government of India).

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Northern Circle.							
Ganjám ..	1	3 acres .	Intentional.	Withdrawn.	....	....	These cases were withdrawn for want of evidence.
	2	200 " ..	Careless ..	Acquitted under section 245, Criminal Procedure Code.	....	....	
	3	60 " ..	Do.	Pending ..	....	....	
	4	..	Intentional.	Withdrawn.	....	....	Do.
	5	..	Careless ..	Compounded.	Section 21 of the Madras Forest Act.	....	
	6	..	Do.	Pending ..	....	....	
Vizagapatam.	1	25 acres ..	Intentional.	Convicted ..	Section 21 of the Madras Forest Act.	Fined Rs. 10 or to suffer 20 days' rigorous imprisonment in default.	
	2	1·75 " ..	Do.	Do. ..	....	Fined Rs. 10 or to suffer 10 days' rigorous imprisonment in default.	
	3	30 " ..	Do.	Acquitted ..	....	....	
Gódavari, Lower.	1	1·5 " ..	Careless in burning Podu.	..	....	....	Pending with Magistrate.
	2	·01 acre.	Do.	..	....	....	Do.
	3	10 acres ..	Careless ..	..	....	....	Do.
	4	*Nil.*	Do.	..	....	....	Do.
Kurnool, West.	1	20 acres ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Accused sentenced to pay a fine of Rs. 5 or in default to suffer simple imprisonment for a week.	The fire was set by the accused in such a manner as to endanger the Gani forest reserve.
Bellary ..	1	·01 acre ..	Careless ..	Do. ..	Do.	Fined Rs. 2 accused being a boy of about 8 years.	
Anantapur.	1	5 acres ..	Intentional.	..	....	The party agreed to pay a composition fee of Rs. 10 and paid the amount accordingly.	
Central Circle.							
Cuddapah, East.	1	680	Intentional.	Acquitted ..	....	The accused was given the benefit of the doubt and acquitted.	
	2	4 square yards.	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act, V of 1882.	The accused was fined Rs. 2.	
	3	..	Do.	Pending ..	....	The case is pending with the Taluk Magistrate, Sidhout.	
Nellore ..	1	0·16	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Each of the accused was sentenced to pay a fine of Rs. 5.	
Arcot, North.	1	10	Intentional.	Do. ..	Section 21 (*h*) of the Madras Forest Act.	Rigorous imprisonment for one month.	
Arcot, South.	1	28	Carelessness.	Compounded for Rs. 10.	....	....	
Salem, North.	1	240	Intentional.	Acquitted ..	....	....	
	2	20	Careless and intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to undergo rigorous imprisonment for three months.	
	3	*Nil* (accused detected while the reserve was set on fire).	Intentional.	Acquitted ..	....	....	
	4	2	Do.	Do. ..	....	....	
	5	..	..	Pending ..	....	....	

Appendix to Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						
	Serial number.	Area burnt in acres.	Character of offence (whether intentional or careless).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	Remarks.
Central Circle—cont.							
Salem, South.	1	No area was burnt, but the offenders were caught in the attempt to set fire.	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to a fine of Rs. 25, in default to rigorous imprisonment for six weeks.	
	2	Do.	..	Pending ..	....	Since disposed of. Convicted and sentenced to a fine of Rs. 50, in default to rigorous imprisonment for six weeks under section 21 (*b*) of the Madras Forest Act.	
	3	Do.	..	Do. ..	....	....	
	4	10·35	Intentional.	Withdrawn.	....	....	
	5	No area was burnt, but the offenders were caught in the attempt to set fire.	Do.	Do.	....	....	
Trichinopoly.	1	..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 10.	
Southern Circle.							
Canara, South.	* 1	60 acres ..	Intentional.	Acquitted ..	....	....	
	* 2	50 ,, ..	Do.	Do. ..	....	....	
	* 3	..	Carrying a torch.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 12.	
	* 4	20 acres ..	Do.	Acquitted ..	....	....	
	* 5	72 ,, ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 20.	
	* 6	84 ,, ..	Do.	Compounded for Rs. 4.	....	....	
	* 7	10 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 80.	
	* 8	200 ,, ..	Carelessness.	Do. ..	Do.	,, Rs. 120.	
	* 9	16 ,, ..	Do.	Do ..	Do.	,, Rs. 24.	
	* 10	30 ,, ..	Intentional.	Acquitted ..	....	....	
	* 11	50 ,, ..	Do.	Do. ..	....	....	
	* 12	..	Carrying a naked torch.	Compounded for Rs. 9.	....	....	
	* 13	20 acres ..	Carelessness.	Acquitted ..	....	....	
	* 14	10 ,, ..	Do.	Do. ..	....	....	
	* 15	..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 6.	
	* 16	..	Do.	Compounded for Rs. 2.	....	....	
	17	8 acres ..	Do.	Compounded for Rs. 4.	....	....	
	18	100 ,, ..	Do.	Componnded for Rs. 3.	....	....	
	19	1 acre ..	Do.	Pending ..	....	....	
	20	..	Carrying a naked torch.	Acquitted ..	....	....	
	21	6 acres ..	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 25.	
	22	2 ,, ..	Intentional.	Pending ..	....	....	
	23	1 acre ..	Carelessness.	Do. ..	....	....	
	24	10 acres ..	Do.	Do. ..	....	....	
	25	10 ,, ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 10.	
	26	6 ,, ..	Do.	Acquitted ..	....	....	
	27	18 ,, ..	Do.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 12.	
	28	18 ,, ..	Do.	Do. ..	Do.	,, Rs. 10.	
	29	6 ,, ..	Do.	Compounded for Rs. 4	....	....	
	30	6 ,, ..	Do.	Compounded for Rs. 5	....	....	
	31	..	Do.	Pending ..	....	....	
	32	150 acres ..	Do.	Acquitted ..	....	....	
	33	..	Intentional.	Compounded for As. 8	....		

* Pending cases of 1908–1909.

Appendix to Form No. 71 (Statement No. II prescribed by the Government of India)—*cont.*

District.	Details of prosecutions for offences by fire.						Remarks.
	Serial number of fire.	Number of acres burnt.	Character of offences (whether careless or intentional).	Whether acquitted or convicted.	Section of law under which convicted.	Amount of punishment.	
Southern Circle—cont.	34	..	Intentional..	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Sentenced to suffer two months' rigorous imprisonment.	
Canara, South—	35	2 acres ..	Carelessness.	Compounded for Rs. 3.	....	....	
	36	..	Do.	Pending ..	....	....	
	37	30 acres ..	Do.	Do. ..	....	....	
	38	..	Carrying torches.	Do. ..	....	....	
	39	100 square yards.	Carelessness.	Do. ..	....	....	
	40	Do.	Do.	Do. ..	....	....	
	41	150 square yards.	Do.	Do. ..	....	....	
	†42 to 49	274 acres ..	Do.	Withdrawn.	....	....	
	50 to 52	210 ,, ..	Intentional.	Do. ..	....	....	
	53	·10 acre ..	Carrying a torch.	Do. ..	....	....	
Malabar, North.	* 1	681 acres ..	Intentional.	Pending ..	....	....	
Malabar, South.	1	·08 acre ..	Carelessness.	Convicted ..	Rule 2 under section 26 of Act V of 1882.	Two accused fined Rs. 50 each.	
	2	Not reported.	Intentional.	Do. ..	Section 21 (*b*) of the Madras Forest Act.	One accused was sentenced to suffer three months' rigorous imprisonment.	
The Nilgiris.	1	1 acre ..	Intentional.	Withdrawn.	....	....	
	2	1 ,, ..	Carelessness.	Compounded.	....	....	
	3	2 acres ..	Do.	Do.	....	....	
	4	500 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Accused sentenced to suffer one month's rigorous imprisonment.	
	5	1 acre ..	Carelessness.	Compounded.	....	....	
	6	2 acres ..	Do.	Do.	....	....	
	7	2 ,, ..	Do.	Do.	....	....	
	8	Not reported.	Not reported.	Pending ..	....	....	
Kollegal ..	1	320 acres ..	Intentional.	Pending ..	....	....	
	2	10 ,, ..	Carelessness.	Do. ..	....	....	
	3	240 ,, ..	Intentional.	Withdrawn.	....	....	
	4	120 ,, ..	Do.	Convicted ..	Sections 21 and 23 of the Madras Forest Act.	Two accused fined—one Rs. 5 and the other Rs. 20.	
	5	..	Carelessness.	Compounded for Rs. 10.	....	....	
	6	300 acres ..	Do.	Withdrawn.	....	....	
Coimbatore, North.	* 1	Not known.	Carelessness.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Two accused fined Rs. 10 each, in default to suffer rigorous imprisonment for one week.	
	* 2	600 acres ..	Intentional.	Withdrawn.	....	....	
	* 3	Not known.	Do.	Pending ..	....	....	
	4	23·50 acres.	Carelessness.	Convicted ..	Section 21 (*c*) of the Madras Forest Act.	One accused fined Rs. 30, in default 30 days' rigorous imprisonment; two acquitted.	
	5	60 sq. feet ..	Intentional.	Do. ..	Do.	Two accused fined Rs. 20 or to suffer simple imprisonment till rising of Court.	
	6	960 acres ..	Do.	Pending ..	....	....	
	7	450 ,, ..	Do.	Convicted ..	....	One accused fined Rs. 25 or to suffer rigorous imprisonment for ten days and the other Rs. 10 or to suffer ten days' rigorous imprisonment.	
	8	480 ,, ..	Carelessness.	Pending ..	....	....	
Coimbatore, Central.	1	6 acres ..	Carelessness.	Acquitted ..	....	....	
	2	225 ,, ..	Do.	Withdrawn.	....	....	
	3	40 ,, ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	Fined Rs. 45.	
Madura ..	1	Not known.	Intentional.	Convicted ..	....	Two accused fined Rs. 50 each.	
	2	Do.	Carelessness.	Withdrawn.	....	....	
	* 3	160 acres ..	Intentional.	Convicted ..	Section 21 (*b*) of the Madras Forest Act.	One accused fined Rs. 50.	
Tinnevelly	1	..	Intentional.	Pending ..	....	....	
	2	..	Do.	Compounded at Rs. 5 per offender.	....	....	

* Pending cases of 1908–1909. † Include two pending cases of last year.

ANNUAL FORM No. 72.

Forest Department, Madras Presidency.

AREA of Forest Tracts protected from Fire during 1909–1910.

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle.		ACS.	ACS.	ACS.	ACS.	RS.	
Ganjám Special protection—Mojjagada range.	1. Dhimirijholi	1903 ..	512	512	..	512	55	
	2. Rambha	1903 ..	776	777	..	777	57	
	3. Kaliamba and its extension.	1904 ..	340	580	181	399	52	
	4. Baiballi	1903 ..	1,326	1,330	..	1,330	46	
	5. Darpangia and its extension.	1903 ..	1,600	1,700	12	1,688	64	
	6. Gulleri	1901 ..	4,525	4,686	3	4,683	191	
	7. Tilike	1903 ..	1,190	1,230	64	1,166	86	
	8. Outer boundary 60′ line.	1909 ..	..	10,000	..	10,000	145	
	Total, Mojjagada ..	..	10,269	20,815	260	20,555	696	
Kukuluba range.	1. Chendragiri	1903 ..	6,600	6,600	27	6,573	361	
	2. Brahmanassyi	1901 ..	2,800	2,800	5	2,795	136	
	3. Ambazora	1903 ..	2,000	2,000	..	2,000	44	
	4. Gogodo and its extension.	1903 ..	3,600	3,600	6	3,594	80	
	5. Kullada	1904 ..	164	184	..	184	18	
	6. Jagannadhaprasad ..	1904 ..	374	590	1	589	40	
	7. Outer boundary 60′ line.	1909 ..	..	16,900	..	16,900	158	
	Total, Kukuluba ..	..	15,538	32,674	39	32,635	837	
Buguda range. ..	1. Panchabhuti	1903 ..	1,672	1,672	1	1,671	83	
	2. Kurcholi	1901 ..	6,140	6,180	..	6,180	163	
	3. Kriamba	1903 ..	5,455	5,455	3	5,452	158	
	4. Vishnuchakram ..	1908 ..	100	100	..	100	15	
	5. Bodochandora	1909 ..	..	100	..	100	29	
	6. Outer boundary 60′ line.	1909 ..	..	5,000	..	5,000	133	
	Total, Buguda ..	..	13,367	18,507	4	18,503	581	
Surada range.	1. Bondagocha	1904 ..	140	140	..	140	15	
	2. Pippalaponka	1903 ..	2,048	2,070	90	1,980	210	
	3. Rogada	1903 ..	4,460	2,560	198	2,362	231	
	4. Mandopitta ..	1903 ..	1,150	1,150	15	1,135	123	
	5. Vinjigiri	1908 ..	387	387	..	387	35	
	6. Malati	1908 ..	204	214	..	214	18	
	7. Hukuma	1908 ..	55	60	..	60	6	
	8. Raipada	1909 ..	..	100	..	100	5	
	9. Outer boundary 60′ line.	1909 ..	..	5,000	..	5,000	140	
	Total, Surada ..	..	8,439	11,681	303	11,378	783	
Pondakhol range.	Dowgam	1903 ..	(a) 290	290	..	290	58	
	Total, Ganjám, Special.	..	47,903	83,967	606	83,361	(a) 2,955 * + 2	
Vizagapatam Special protection.	1. Dharakonda	1901–1902	18,284	46,880	11,800	35,080 }	696	
	2. Sanivaram	1901–1902.	7,872	31,488	5,951	25,537 }		
	3. Pedimikonda	1901–1902.	3,311	3,311	..	3,311 }		
	4. Narasapatam fuel working circle.	1901–1902.	1,400	1,400	3	1,397	57	
	5. Arlova and its extension.	1901–1902.	67	4,162	6	4,156	51	
	6. Peddapalli reserve ..	1902–1903.	935	9,077	..	9,077	128	
	7. Coupes in Venkatapuram working circle.	1907–1908.	720	750	5	745	139	
	8. Coupes in Antikonda.	1903–1904.	302	430	9	421	63	
	9. Coupes in Chinagora.	1907–1908.	125	300	5	295	56	
	10. Coupes in Itchapuram.	1905–1906.	15	68	31	37	18	
	11. Coupes in Barna reserve.	1906–1907.	26	43	8	35	27	
	12. Coupes in Palakonda.	1907–1908	20	54	..	54	9	
	13. Kadagandy reserve and its extension.	1900–1901.	8,714	11,064	80	10,984	255	
	14. Samaralli block ..	1909–1910.	..	2,625	..	2,625	11	
	15. Vemagiri experimental grass plot.	1909–1910.	..	20	..	20	7	
	16. Barua extension No. II.	1909–1910.	..	162	..	162 }	67	
	17. Sal-bearing area in Barnakonda.	1909–1910.	..	450	..	450 }		
	Total, Vizagapatam, Special.	..	41,791	112,284	17,898	94,386	1,584	

(a) Corrected in the Board's office.

* Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Vizagapatam General protection.	18. Karaka reserve, Madalammakonda.	1909–1910.	..	11,669	4,500 30	7,139	..	
	19. Sitakhandi		..	2,368	..	2,368	..	
	20. Sarugudu, blocks I to IV.		..	14,576	..	14,576	..	
	21. Kodavatipudi and Venkatapuram less coupes		..	1,302	..	1,302	..	
	22. Kakarlakonda ..		..	1,924	..	1,924	..	
	23. Boddapalem		..	380	..	380	..	
	24. Antikonda excluding coupes.		..	6,539	164	6,375	..	
	25. Donabai reserve ..		..	125	3	122	..	
	26. Chinamangalapuram.		..	51	..	51	..	
	27. Garugubilli ..		..	27	27	..	..	
	28. Chinnagora reserve less coupes.		..	2,083	4	2,079	..	
	29. Itchápuram less coupes.		..	832	..	832	..	
	30. Barna and its extension less coupes.		..	13,474	660	12,814	..	
	31. Palaconda reserve less coupes.		..	4,526	118	4,408	..	
	32 Rankuhanumantapuram.		..	1,519	..	1,519	..	
	Total, Vizagapatam General.	..	..	61,395	5,506	55,889	..	
	Grand Total, Vizagapatam Special and General	..	41,791	173,679	23,404	150,275	1,584 (*a*) + 30	
Gódávari, Upper, General protection—Bhadráchalam range.	1. Malkanapally reserve.	1905 ..	4,116	4,116	..	4,116	309	
	2. Dummagudem "	1887 ..	4,308	4,308	..	2,308	399	
	3. Arlagudem "	1887 ..	7,250	7,250	436	6,814	521	
	4. Tunikicheruvu "	1905 ..	10,093	10,093	..	10,093	575	
	5. Bhadráchalam "	1905 ..	7,661	7,661	..	7,661	482	
	6. Komananpally "	1905 ..	2,668	2,668	430	2,238	153	
	7. Gogubaka "	1905 ..	1,138	1,138	..	1,138	90	
	8. Tatlanka "	1887 ..	12,630	12,630	..	12,630	288	
	9. Bundreo "	1904 ..	8,635	8,635	1,800	6,835	196	
	10. Gollaguppa "	1904 ..	7,809	7,809	7,809	..	160	
	Total, Bhadráchalam Range.	..	66,308	66,308	10,475	55,833	3,173	
Marrigudem range.	1. Repauka reserve ..	1887 ..	6,072	6,072	650	5,422	239	
	2. Ramachendram reserve.	1887 ..	9,277	9,277	460	8,817	298	
	3. Narakonda reserve ..	1904 ..	6,600	6,600	711	5,889	164	
	4. Pegha " ..	1904 ..	4,601	4,601	2,809	1,792	310	
	5. Uppanapally " ..	1904 ..	2,569	2,569	1,590	979	144	
	6. Seetharampuram reserve.	1904 ..	865	865	..	865	99	
	7. Bandarugudem reserve.	1904 ..	7,931	7,931	5,120	2,811	265	
	8. Burakanakota reserve.	1904 ..	1,656	1,656	800	856	155	
	9. Pulusumamidy "	1902 ..	5,292	5,292	1,000	4,292	130	
	10. Mattapalli " ..	1887 ..	7,277	7,277	600	6,677	450	
	11. Kalleru " ..	1905 ..	4,140	4,140	..	4,140	237	
	12. Kansulur " ..	1905 ..	5,425	5,425	4,360	1,065	102	
	13. Lakkavaram " ..	1905 ..	7,306	7,306	4,400	2,906	320	
	13. Lakkavaram extension.	1906 ..	940	940	..	940	..	
	14. Walsugrivi	1905 ..	7,475	7,475	5,000	2,475	94	
	Total, Marrigudem ..	..	77,426	77,426	27,500	49,926	3,007	
Rekapalle range.	1. Rekapalle Hills Reserve—							
	Compartment No. I.	1901 ..	129,912	130,012	61,500	68,512	2,169	
	Compartments Nos. II to IX	1903 ..						
	Compartment No. X.	1902 ..						
Nugur Range.	Nugur reserved forest ..	1909 ..	..	64,000	40,588	23,412	1,057	
	Total, Gódávari, Upper, General.	..	273,646	337,746	140,063	197,683	9,406 (*a*) — 7	

(*a*) Added or deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Gódávari, Lower—General protection—Rajahmundry range.	1. Lakkonda reserve ..	1887 ..	11,904	13,104	590	12,514	45	
	2. Malleru ,, ..	1887 ..	8,050	8,250	80	8,170	27	
	3. Mallavaram ,, ..	1887 ..	7,596	7,600	215	7,385	21	
	4. Tirumalayapalem reserve.	1887 ..	5,150	5,150	..	5,150	32	
	5. Sudikonda reserve ..	1887 ..	6,875	6,880	120	6,760	23	
	6. Murari ,, ..	1889 ..	700	700	..	700	13	
	7. Kogida ,, ..	1889 ..	1,280	1,280	..	1,280	12	
	8. Devancheruvu ,, ..	1887 ..	2,051	2,051	..	2,051	31	
	Total, Rajahmundry range.	..	43,306	45,015	1,005	44,010	204	
Peddapur range.	1. Anantagiri reserve ..	1905 ..	3,000	3,050	106	2,944	94	
	2. Ultimathula ,, ..	1905 ..	2,400	2,600	..	2,600	128	
	3. Banadapalle ,, ..	1905 ..	5,500	5,800	100	5,700	171	
	4. Rajavommangi ,, ..	1905 ..	7,761	7,961	150	7,811	231	
	5. Singampalli ,, ..	1905 ..	3,122	3,142	40	3,102	93	
	6. Jaddangi ,, ..	1905 ..	5,725	5,775	11	5,764	172	
	7. Aminbada ,, ..	1905 ..	4,480	4,480	..	4,480	128	
	8. Doramamidi ,, ..	1905 ..	6,400	6,400	164	6,236	154	
	9. Labbarti ,, ..	1905 ..	6,430	6,500	24	6,476	165	
	10. Veerabhadrapuram reserve.	1905 ..	10,200	10,300	393	9,907	284	
	11. Vatangi reserve ..	1905 ..	8,640	8,840	380	8,460	292	
	12. Lododdi ,, ..	1905 ..	7,050	7,200	115	7,085	235	
	13. Pedagumangi ,, ..	1905 ..	3,830	4,000	180	3,820	149	
	14 Annavaram ,, ..	1905 ..	8,360	8,500	348	8,152	213	
	15. Lingamparti ,, ..	1905 ..	6,210	6,500	415	6,085	146	
	16. Totapalli ,, ..	1887 ..	2,150	2,150	..	2,150	72	
	17. Posting look-out men to keep continued watch at several stations over the reserves.	..	..	..	..	..	472	
	18. Demarcation of sample plot in connection with departmental burning of grass.	..	..	..	..	..	158	
	Total, Peddapur range ..	..	91,258	93,198	2,426	90,772	3,357	
Polavaram range.	1. Beddadanvole reserve.	1890 ..	15,000	15,000	140	14,860	141	
	2. Marlagudem ,, ..	..	2,100	2,100	..	2,100	117	
	3 & 4. Jílugumilli and Barrinkalapadu reserves adjoining the Hyderabad boundary.	1898 ..	4,942	4,968	35	4,933	7	
	5. Kovvada reserve ..	1906 ..	17,316	17,799	372	17,427	225	
	6. Kopalli ,, ..	1906 ..	14,524	14,924	650	14,274	185	
	7. Papikonda ,, ..	1906 ..	11,785	11,785	630	11,155	428	
	8. Fire tracing the Forest Road which passes through Kovvada and Kopalli reserves.	..	..	..	..	..	24	
	Total, Polavaram range ..	..	65,667	66,576	1,827	64,749	1,127	
	Total, Gódavári, Lower (General).	..	200,531	204,789	5,258	199,531	4,688 * + 5	
Kistna—Special protection—Bezwada range.	1. Kondapalle reserve and extension No. 1.	1884–1885.	19,947	21,947	904	21,043	336	5 fires.
	2. Kothur reserve ..	1904–1905.	530	530	..	530	68	
	3. Kothur extension No. 2 reserve.	1904–1905.	50	50	..	50	..	
	4. Dasullapalem reserve..	1904-1905.	200	200	..	200	..	
	5. Jangalapalle ,, ..	1904–1905.	320	320	..	320	..	
	6. Velvadam ,, ..	1904–1905.	104	104	..	104	..	
	7. Kondur reserve ..	1903–1904.	210	286	154	132	166	2 fires.
	8. Jaggayyapeta reserve.	1904–1905.	50	50	..	50	..	
	9. Budavada reserve ..	1904–1905.	120	120	..	120	..	
	Total, Bezwada range.	..	21,531	23,607	1,058	22,549	570	

* Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Ellore range.	1. Yerraguntapalli reserve.	1887–88 ..	8,640	8,640	..	8,640	240	
	2. Barrikonda reserve ..	1887–88 ..	4,010	4,010	..	4,010	138	
	3. Bandamcherla reserve.	1887–88 ..	5,200	5,200	..	5,200	137	
	4. Nallacherla reserve ..	1908–1909.	932	932	..	932	16	
	5. Ungatur block I ..	1908–1909.	840	840	..	840	16	
	6. ,, II ..	1908–1909.	384	384	..	384	16	
	7. Ramasingavaram ..	1908–1909.	1,270	1,270	..	1,270	16	
	8. Tadikalapudi	1908–1909.	852	852	..	852	16	
	9. Chintalapudi	1908–1909.	360	360	..	360	16	
	10. Velagalapalli ..	1908–1909.	720	720	..	720	16	
	Total, Ellore ..	..	23,208	23,208	..	23,208	627	
	Total, Kistna—(Special) ..	..	44,739	46,815	1,058	45,757	1,197 (*a*) — 1	
Kurnool, East—Special protection.	1. Railway working * circle.	*1889–1909.	* 92,227	101,120	41,685	59,435		
	2. Maddipenta plantation.	..	25	25	25	..		
	3. Cumbum range ..							
	4. Markapur range ..	1905–1909.	4,220	19,108	16,608	2,500		
	5. Fire-protected areas.							
	6. Chinna Mantrala plantation area.	1909 ..	..	1,460	1,000	460	20,565	
	7. Pedda Mantrala plantation area.	1906–1909.	984	1,000	10	990		
	8. Peddachama area ..	1907–1909.	600	600	..	600		
	9. Sandalwood area ..	1907–1909.	6,430	6,430	1,697	4,733		
	10. Gundlakamma range.	1909 ..	..	51,200	4,970	46,230		
	Total, Kurnool East (Special).	..	* 104,486	180,943	65,995	114,948	20,565	
Kurnool, West—Special protection.	1. North and South Bairluti blocks.	1887 ..	..	..	..	..	..	Included in the Nallamalais below.
	2. Gummakonda block ..	1893 ..	..	..	..	..	..	
	3. Gadidemadugu ..	1903 ..	709	978	..	978	64	
	4. Woddamanu	1905 ..	210	270	..	270	25	
	5. Yaperlapad	1904 ..	552	761	30	731	137	
	6. West Ramallakota ..	1904 ..	490	630	..	630	67	
	7. Lanjabonda	1904 ..	..	889	192	697	74	
	8. Betamcherla G and H.	1904 ..	1,618	2,080	..	2,080	230	
	9. Loddipalli	1909 ..	..	118	..	118	9	
	10. East Ramallakota ..	1909 ..	..	192	..	192	16	
	11. Lanjabonda Extension.	1909 ..	..	311	..	311	33	
	12. Yemboyi	1909 ..	..	343	..	343	72	
	13. Rangapuram	1909 ..	..	577	..	577	31	
	14. Panem reserve M N ..	1909 ..	..	2,360	..	2,360	112	
	15. Gani reserve O and P.	1909 ..	..	4,560	1	4,559	79	
	16. North Dhone reserve A and B.	1903 ..	2,500	3,228	2,964	264	215	
	17. Kamalapuram C ..	1903 ..	329	423	97	326	108	
	18. South Dhone D ..	1904 ..	638	897	677	220	143	
	19. Southern Mahratta Railway line in North Dhone reserve.	..	..	..	..	..	27	
	20. Lodge's Fodder plot ..	1907 ..	..	..	..	..	19	
	21. Mettapalli E	1909 ..	..	208	..	208	4	
	22. Kothakota and Pedda Podilla F.	..	..	72	..	72	..	
	23. Kottaburuzu G ..	..	..	120	..	120	16	
	24. Eddupenta H	..	..	147	..	147	20	
	25. Katarukonda I ..	..	..	286	..	286	6	
	26. Kapatralla J	..	..	303	..	303	34	
	27. Karumanchi K ..	..	..	149	..	149	3	
	28. Gundlakonda L ..	..	..	448	..	448	25	
	29. Pattikonda M ..	..	..	396	..	396	..	
	30. Pendaikal N	..	..	249	..	249	33	
	31. Tuggali O	..	..	201	..	201	8	
	32. Jonnagiri P	..	..	82	..	82	8	
	33. Yerragudi Q	..	..	356	..	356	..	
	34. Madhavaram R ..	..	..	628	300	328	4	
	35. Owk A and B ..	..	..	3,184	..	3,184	117	
	36. Ramavaram C ..	..	..	227	..	227	37	
	37. Addapalli D	..	..	131	..	131	12	

* This is the correct locality and area protected in previous years.
(*a*) Deducted as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
	38. Nallamekalapalli E ..	..	..	68	..	68	5	
	39. Peddapaya F	..	..	339	..	339	39	
	40. Devagudipad G ..	..	..	287	..	287	32	
	41. Jaladurgam and Extension III H and I.	..	..	1,819	460	1,359	99	
	42. Jaladurgam and Extension I J.	..	..	411	..	411	28	
	43. Pyapalli and Extension I and II K.	..	..	614	614	..	49	
	44. Tekulakonda Extension I and II L.	..	..	197	197	..	27	
	Total, Yerramalais ..	..	7,046	29,539	5,532	24,007	2,067	
Kurnool, West—Special protection—*cont.*	1. Area west of Mr. Wood's fire line in Nallamalais of Velgode range including four plantations.	1904 ..	30,720	59,520	29,440	30,080	1,733	
	2. Area west of Mr. Wood's fire line in part of Nandyal and Ernapad Terai portion.	1905 ..	26,560	28,160	6,400	21,760	772	
	3. Area west of Mr. Wood's fire line in Atmakur range including Nagalooty and Bairluti plantations.	1906 ..	12,160	19,200	6,400	12,800	807	
	4. Fire protection in Pecheruvu range plantation.	..	..	..	..	..	240	
	5. Fire protection of hill portion in Atmakur range.	..	..	..	..	..	53	
	6. Grubbing out and removing stumps and roots on the line from Bonda to Terrai line and on Mr. Wood's fire line in Nandyal.	..	..	..	..	..	390	
	7. Cutting grass as a fire-protection measure in Honkaram plantation.	..	..	..	..	..	120	
	8. Grubbing out roots, etc., on the fire lines in Atmakur range.	..	..	..	..	..	145	
	9. Cutting guide lines and burning grass on fire lines in Sirvel range.	..	..	..	..	..	876	
	10. Fire-protection works in Gundlabrahmeswaram range.	1908 ..	23,680	23,680	2,560	21,120	1,141	
	11. Putting out fires in Sirvel and Velgode ranges.	..	..	..	..	..	90	
	Total, Nallamalais ..	..	93,120	130,560	44,800	85,760	6,367	
	Total, Kurnool, West (Special).	..	100,166	160,099	50,332	109,767	8,434	
Bellary—Special Protection, Sandur range.	1. Ramandrug block ..	1883 ..	14,723	14,785	3,645	11,140		
	2. North-east block ..	1883 ..	14,190	16,011	7,466	8,545	6,316	
	3. Donamalai ,, ..	1883 ..	8,779	9,205	162	9,043		
	4. Part of Gundu and Gundu extension.	1906 ..	6,559	6,559	..	6,559		
Bellary range.	1. Malapanagudi Yepi block.	1886–87 ..	1,066	1,066	..	1,066	110	
Harpanahalli range.	1. Hyarada coupes ..	1899–1900	2,000	2,000	960	1,040		
	2. Jattinakatta	1906 ..	1,250	1,250	90	1,160	184	
	3. Sogi	1907 ..	400	400	150	250		

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Rayadrug range.	Dharmapuri coupes ..	1908 ..	800	800	..	800	51	
Hospet range.	1. Sunkarakal coupe ..	1908 ..	40	40	..	40	134	
	2. Chiribi coupes ..	1906 ..	150	150	..	150		
Kudligi range.	1. Shivapuram coupes ..	1902–03 ..	200	200	..	200	196	
	2. Kakkuppi coupes ..	1906 ..	60	60	..	60		
Alúr range ..	Bantanahal series, whole area.	Part 1909 ..	1,574	1,574	..	1,574	26	
Adóni range.	1. Working Circle IV, compartments 1, 2 and 3.	1910 ..	..	2,172	51	2,121	102	
	2. Working Circle V, compartments 1, 2 and 3.	Part 1907 ..	195	1,666	2	1,664		
	3. Working Circle VI, compartments 1, 2 and 3.	Part 1909 ..	187	1,828	..	1,828		
	4. Working Circle VII, compartments 1, 2 and 3.	Part 1907 ..	(*a*) 2,041	2,048	..	2,048		
	5. Working Circle VIII, compartments 1, 2 and 3.	Part 1909 ..	930	2,603	50	2,553		
	Total, Bellary (Special) ..	..	55,144	64,417	12,576	51,841	7,119 *+ 2,551	
Anantapur—Special protection.	1. Muchukota reserve ..	1884 ..	10,000	10,000	1	9,999	407	
	2. Kothakota ,, ..	1884 ..	11,016	11,016	26	10,990	313	
	3. Amagondapalayam Working Circle.	1884 ..	15,360	15,360	126	15,234	230	
	4. Nyalakota Working Circle.	1890 ..	11,956	12,156	5	12,151	219	
	5. Konappanayanipalli Working Circle.	1905 ..	1,215	1,215	..	1,215	17	
	6. Penukonda Town Working Circle.	1905 ..	1,700	1,700	640	1,060	17	
	7. Yerracherla Working Circle.	1904 ..	411	411	5	406	16	
	8. Rallahalli Working Circle.	1904 ..	626	626	..	626	16	
	9. Madakasira Working Circle.	1905 ..	739	739	..	739	16	
	10. Guttur Working Circle.	1906 ..	1,291	1,293	..	1,293	45	
	11. Vanavole Working Circle.	1906 ..	1,903	1,903	..	1,903	47	
	12. Gundamala Working Circle.	1906 ..	890	890	..	890	16	
	13. Hottebetta Working Circle.	1907 ..	1,223	1,223	..	1,223	35	
	14. Ramagiri Working Circle.	1907 ..	1,488	1,588	300	1,288	26	
	15. Chalivondala Working Circle.	1907 ..	1,376	1,376	..	1,376	31	
	16. Kodihalli Working Circle.	1908 ..	276	276	..	276	17	
	17. Yadiki Working Circle.	1908 ..	1,612	1,612	1,050	562	60	
	18. Rayalcheruvu Working Circle.	1908 ..	1,272	1,272	..	1,272	46	
	19. Nagasamudram Working Circle.	1908 ..	1,783	1,823	320	1,503	72	
	20. Gooty Town Working Circle.	1908 ..	824	824	145	679	50	
	21. Gallows Working Circle.	1908 ..	936	2,136	602	1,534	64	
	22. Pamdurti Working Circle.	1908 ..	642	1,042	20	1,022	22	
	23. Tarimala Working Circle.	1909 ..	..	2,285	..	2,285	54	
	24. Ratnagiri Working Circle.	1909 ..	..	188	..	188	22	
	25. Ravudi Working Circle.	1909 ..	..	58	..	58	17	
	26. Settipalli Working Circle.	1909 ..	..	1,053	10	1,043	35	
	Total, Anantapur (Special).	..	68,539	74,065	3,250	70,815	1,910	

* Added as per Accountant-General's audited figures.

(*a*) Correct figure.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Northern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Anantapur General protection.	1. Guttur Working Circle.	1887 ..	3,870	3,880	60	3,820	..	
	2. Jambugampala ..	1908 ..	4	4	..	4	..	
	Total, Anantapur (General).	..	3,874	3,884	60	3,824	..	
	Total, Anantapur (Special and General).	..	72,413	77,949	3,310	74,639	1,910	
	Total, Special ..	..	462,768	722,590	151,715	570,875	46,346	
	Total, General ..	..	478,051	607,814	150,887	456,927	14,092	
	Grand Total (Special and General).	..	940,819	1,330,404	302,602	1,027,802	60,438	
	Central Circle.							
Cuddapah, North—Cuddapah range.	Lankamalais extension ..	1905 ..	22.657	24,215	10,031	14,184	198	
	Palakonda and its extension.	1901–1905	32,625	35,275	1,457	33,818	672	
	Ganganapalli and extension.	1905 ..	36,234	49,277	760	48,517	204	
	Idupalapaya and extension. / Idupalapaya plantation ..	1905 ..	23,577	20,912	150	20,762	240	
	Redlacheruvu	1905 ..	6,420	6,420	..	6,420	..	
	Gorivikanama and extension.	1908–1909	10,910	100	..	100	28	
	Tummalur Reserved Forest	1908–1909	4,456	..	..	..	..	
	Kamalapuram plantation.	1908–1909	561	561	..	561	..	
	Total, Cuddapah range ..	..	1,37,440	136,760	12,398	1,24,362	1,342	
Proddatur range.	Nallamalais	1905 ..	47,213	47,813	19,200	28,613	1,162	
	Lankamalais extension ..	1907 ..	* 6,377	698	..	698	60	
	Kancherlamaram coupes ..	1907–1910	320	10,988	..	10,988	251	
	Total, Proddatur range ..	..	53,910	59,499	19,200	40,299	1,473	
Ráyachóti range.	Seshachellam extensions C. and D.	1905 ..	12,869	13,269	..	13,269	98	
	Yerrakonda and extension.	1905 ..	11,169	19,511	561	18,950	363	
	Gadikota and extension ..	1905 ..	21.345	21,985	1,007	20,978	116	
	Palakonda and extension.	1905 ..	46,207	46,877	5,867	41,010	143	
	Idupalapaya and extension.	1905 ..	14,984	14,984	3,790	11,194	142	
	Sibyala coupes	1905 ..	500	500	..	500	..	
	Mudumpad slopes ..	1907 ..	† 9,204	9,024	..	9,024	102	
	Urukonda	1907 ..	100	100	..	100	..	
	Total, Ráyachóti range ..	..	116,378	126,250	11,225	115,025	964	
	Total, North Cuddapah, Special.	..	307,728	322,509	42,823	279,686	3,779	
Cuddapah, East—Pullampet range, Special.	Settigunta (Balapalle East Working Circle).	1871–1908	4,457	..	..	..	..	
	Seshachallams including Buduguntapalle Reserved Forest.	1867–1873–1905	191,854	191,910	27,774	164,136	1.176	‡ 400
	Veligondas comprising Settigunta Reserved Forest, Cheyyavaram and extension, Kodur and extension Gotimanikona and extension and Salivendula and extension Reserved Forest.	1871–1908	3,188	53,877	8,991	44,886	323	‡ 75
	Total, Pullampet range ..	..	199,499	245,787	36,765	209,022	1 499	‡475

* Reported as wrongly given instead of 698.
† 180 acres reported to have been shown in excess last year.
‡ Incurred on account of the fire-protection of the previous year.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Cuddapah East—*cont.* Sidhout range.	Palakondas Reserved Forest.	1901–1905	35,468	35,538	2,540	32,998	466	‡113
	Konarajupalle Reserved Forest, and Nandalur Vontimitta Fuel Working Circle).	1905 ..	7,346	7,366	680	6,686	98	‡2
	Kanamalapalle Reserved Forest (Fuel Working Circle).	1905 ..	6,591	3,121	76	3,045	82	‡14
	Lankamalai Reserved Forest.	1905 ..	34,259	34,711	20,269	14,442	397	‡198
	Turpukonda and extension.	1907 ..	..	30,748	822	29,926	165	
	Total, Sidhout range ..	..	83,664	111,484	24,387	87,097	1,208	‡327
Badvel range	Nallamalais Reserved Forest.	1905 ..	50,452	57,341	23,740	33,601	521	* 459
	Gopavaram and Lankamalais Reserved Forest (Badvel) Fuel Working Circle.	1905 ..	..	8,805	..	8,805		
	Porumamilla Fuel Working Circle (Kavalakuntla Reserved Forest).	1905 ..	..	5,789	..	5,789	156	
	Sancherla Fuel Working Circle (Sancherla Reserved Forest).	1905 ..	..	4,153	..	4,153		
	Lankamalai Fuel Working Circle (Lankamalai Reserved Forest).	1905 ..	..	3,815	..	3,815		
	Total, Badvel range ..	..	50,452	79,903	23,740	56,163	677	
	Grand total of Cuddapah East—Special.	..	333,615	437,174	84,892	352,282	3,384	* 1,261
Cuddapah, South—Kadiri range.	Nigadi Reserve	1905 ..	29,957	29,957	265	29,692	595	
	Kadiri coupe	1908 ..	300	400	..	400	..	
Vayalpad range.	Horsleykonda	1905 ..	21,739	21,739	136	21,603	..	
	Bhakarapet		10,600	10,600	180	10,420	..	
	Talakona	1905 ..	18,900	18,900	..	18,900	..	
	Seshachallam extension ..		..	8,696	..	8,696	..	
	Nurukuppalakonda ..	1908 ..	300	400	..	400	..	
	Total, Cuddapah South, Special and Departmental burning.	..	81,796	90,692	581	90,111	595	
Nellore ..	Udayagiri-Veligondas A and B blocks.	1883 ..	60,000	60,000	..	60,000		
	Gundlakonda attached to Veligondas A in the Udayagiri range.	1903 ..	720	720	..	720	666	
	Udayagiri-Durgum Hill and Korisakonda.	1902 ..	15,760	15,760	..	15,760		
	Udayagiri - Yerragondas in the Udayagiri range.	1903 ..	14,080	14,080	..	14,080		
	Rapur-Veligondas A and B blocks in Rapur range.	1883 ..	30,720	30,720	322	30,398		
	Dontali and Amancherla reserves.	1909 ..	1,304	1,304	..	1,304	678	
	Kondlapudi reserve ..	1910 ..	..	1,500	..	1,500		
	Sarvepalli reserve compartment 7.	1910 ..	..	500	..	500		
	Kollurpad in Kavali range.	1909 ..	110	110	..	110	34	
	Nandanavanam block and its extensions A and B and Vedullacheruvu or Kanigiri-Veligondas in Kanigiri range.	1883 ..	26,780	26,780	..	26,780	175	
	Total, Nellore ..	..	149,474	151,474	322	151,152	1 553	

* Incurred on account of the fire-protection of the previous year.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	During the year under report. Fires.	During the year under report. Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
			ACS.	ACS.	ACS.	ACS.	RS.	
	Central Circle—cont.							
Chingleput—Chingleput range.	Meyyur plantation ..	1900–1901.	317	317	..	317	897 (Chingleput and Tiruvallúr ranges)	
	Karunguli tope	1900–1901.	16	16	..	16		
Tiruvallúr range.	Kambakkam Reserved Forest.	1883–1884.	15,827	15,827	..	15,827		
	Nagalapuram Reserved Forest.	1883–1884.	9,446	9,696	72	9,624		
	Total, Chingleput ..	..	25,606	25,856	72	25,784	897	
North Arcot—Special Protection. Chittoor range.	Chittoor reserve	1882 ..	385	385	1	384	27	
	Chittapara reserve ..	1903 ..	871	1,061	1	1,060	6	
	Paradarami reserve ..	1903 ..	787	962	1	961	15	
	Pudipatlabylu	1903 ..	222	268	2	266	12	
	Veerisettipalle	1903 ..	455	605	..	605	17	
	Tavanampalli	1903 ..	21	41	..	41	4	
	Vevilthota	1903 ..	112	134	2	132	5	
	Total, Chittoor range ..	..	2,853	3,456	7	3,449	86	
Chandragiri range.	Napier reserve	1880 ..	21,228 (Napier reserve, Mamandur reserve and Mamandur extension)	8,826	40	8,786	..	
	Mamandur reserve ..	1875 ..		1,760	..	1,760	..	
	Mamandur extension ..	1888 ..		10,642	..	10,642	..	
	Tirupati hill	1904 ..	115	115	..	115	..	
	Chamala	1880 ..	19,347	19,362	915	18,447	..	
	Nagapatla	1890 ..	14,014	14,147	..	14,147	..	
	Mungilpattu	1903 ..	699	855	..	855	..	
	Panapákkam	1903 ..	399	1,430	..	1,430	..	
	Penumur	1906 ..	506	713	..	713	..	
	Panapákkam extension ..	1907 ..	332	592	..	592	..	
	Tirupati extensions A and B.	1903 ..	434	455	130	325	..	
	Total, Chandragiri range.	..	57,074	58,897	1,085	57,812	404	
Palmanér range.	Peddanaikdrug	1903 ..	804	804	520	284	23	
	Mordana	1898 ..	163	163	..	163	8	
	Charagal	1899 ..	605	605	..	605	10	
	Peddur	1903 .	632	632	157	475	10	
	Naickaneri	1898 ..	246	246	20	226	15	
	Musalimadugu	1884 ..	5,680	5,739	15	5,724	88	
	Palmanér	1901 ..	537	605	..	605	14	
	Peddur extension ..	1902 ..	489	489	90	399	6	
	Basavareddipalli	1898 ..	486	541	5	536	6	
	Pattikonda	1903 ..	350	350	..	350	5	
	Total, Palmanér range ..	..	9,992	10,174	807	9,367	185	
Gudiyáttam range.	Naickaneri reserve ..	1901 ..	100	100	..	100	..	
	Mordana	1897 ..	712	712	..	712	..	
	Amburdrug	1897 ..	959	959	..	959	4	
	Mordana extension ..	1898 ..	713	793	80	713	6	
	Gundlapalli	1897 ..	2,007	2,070	..	2,070	12	
	Synagunta	1899 ..	531	596	..	596	7	
	Charagal (Gudiyáttam portion).	1901 ..	642	662	..	662	7	
	Karapet	1897 ..	1,526	1,526	..	1,526	5	
	Paradarami	1903 ..	707	792	..	792	7	
	Jangalapalli	1903 ..	898	984	..	984	8	
	Pallalakuppam .. .	1903 ..	666	721	..	721	5	
	Kempasamudram	1897 ..	200	200	..	200	..	
	Synagunta extension ..	1901 ..	100	100	..	100	..	
	Total, Gudiyáttam range.	..	9,761	10,215	80	10,135	61	
Vellore East range.	Palamadi	1880 ..	8,120	8,160	1,340	6,820	..	
	Kaniyambadi	1892 ..	5,645	5,745	..	5,745	..	
	Punganur	1884 ..	3,961	3,961	..	3,961	..	
	Kodiyalam..	1906 ..	82	82	..	82	..	
	Kolathur	1907 ..	65	82	..	82	..	
	Total, Vellore East range.	..	17,873	18,030	1,340	16,690	186	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report.			Cost during the year under report.	Remarks.
				Area attempted to be protected.	Fires.	Actually protected.		
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Arcot—Special Protection—*cont.* Vellore West range.	Arasampet reserve ..	1901 ..	2,479	2,687	161	2,526	..	
	Ambur fuel reserve ..	1879 ..	6,768	7,512	40	7,472	..	
	Ambur block reserve ..	1887 ..	28,236	28,386	3,010	25,376	..	
	Thellai	1905 ..	1,515	1,675	20	1,655	..	
	Karuthamalai	1906 ..	54	104	..	104	..	
	Kylasagiri	1892 ..	2,613	2,613	65	2,548	..	
	Shanankuppam	1901 ..	903	903	15	888	..	
	Nellimalai	1906 ..	287	352	..	352	..	
	Total, Vellore West range.	..	42,855	44,232	3,311	40,921	312	
Polur range	Karanatighur	1881 ..	7,871	7,871	230	7,641	..	
	Malayalam	1897 ..	1,206	1,206	..	1,206	..	
	Mulakad	1896 ..	280	280	..	280	..	
	Santhavasal	1897 ..	596	596	..	596	..	
	Periamalai	1892 ..	7,315	7,315	..	7,315	..	
	Parvathamalai	1892 ..	6,088	6,088	..	6,088	..	
	Thellai	1897 ..	200	200	..	200	..	
	Vellimalai	1906 ..	187	187	..	187	..	
	Kelur	1897 ..	303	303	..	303	..	
	Allialamangalam	1906 ..	801	801	..	801	..	
	Total, Polur range ..	..	24,847	24,847	230	24,617	641	
Abstract of North Arcot Special protection.	Chittoor	..	2,853	3,456	7	3,449	86	
	Chandragiri	..	57,074	58,897	1,085	57,812	404	
	Palmanér	..	9,992	10,174	807	9,367	185	
	Gudiyáttam	..	9,761	10,215	80	10,135	61	
	Vellore, East	..	17,873	18,030	1,340	16,690	186	
	Vellore, West	..	42,855	44,232	3,311	40,921	311	
	Polur	..	24,847	24,847	230	24,617	641	
	Total, Special protection ..	..	165,255	169,851	6,860	162,991	1,874	
North Arcot General protection.	Chittapara reserve ..	1888 ..	3,718	3,908	1	3,907	..	
	Paradarami	1880 ..	8,551	8,726	1	8,725	..	
	Pachigunta	1888 ..	1,800	1,800	1	1,799	..	
	Irala A and B	1888 ..	12,523	12,523	9	12,514	..	
	Irala extension	1893 ..	2,650	2,650	..	2,650	..	
	Parappumalai	1899 ..	2,227	2,227	1	2,226	..	
	Tavanampalli	1899 ..	1,841	1,861	..	1,861	..	
	Puthalpattu	1891 ..	3,077	3,077	..	3,077	..	
	Damalacheruvu A and B.	1892 ..	2,368	2,368	..	2,368	..	
	Pudipatlabylu	1880 ..	4,156	4,202	2	4,200	..	
	Kinatipalli A	1884 ..	1,417	1,417	..	1,417	..	
	Chillapalli	1884 ..	1,166	1,166	..	1,166	..	
	Basavapalli A and B ..	1888 ..	1,780	1,780	1	1,779	..	
	Basavapalli extension ..	1894 ..	841	841	..	841	..	
	Veerisettipalle	1888 ..	6,589	6,739	..	6,739	..	
	Panamadangi	1887 ..	10,515	10,515	1	10,514	..	
	Kunjanur	1893 ..	1,549	1,549	1	1,548	..	
	Santhapet	1882 .	2,148	2,148	..	2,148	..	
	Bommasamudram A and B.	1891 ..	1,128	1,128	..	1,128	..	
	Vovilthota	1891 ..	2,040	2,040	..	2,040	..	
	Bommasamudram extension.	1892 ..	1,312	1,312	2	1,310	..	
	Kinatipalli extension.	1893 ..	994	994	..	994	..	
	Reddigunta reserve ..	1893 ..	1,441	1,441	..	1,441	..	
	Chases hill	1893 ..	2,692	2,692	..	2,692	..	
	Santhapet extensions A, B and C.	1893 ..	483	483	..	483	..	
	Mahimandalam	1888 ..	2,528	2,528	..	2,528	..	
	Kinatipalli extension B ..	1893 ..	25	25	..	25	..	
	Bommanaikanpaliam ..	1894 ..	912	912	..	912	..	
	Total, Chittoor range.	..	82,471	83,052	20	83,032	..	
Chandragiri range.	Tirupati hill	1888 ..	18,349	18,438	545	17,893	..	
	Nagapatla	1890 ..	5,290	18,121	277	17,844	..	
	Mungilpattu	1890 ..	27,364	27,376	580	26,796	..	
	Panapákkam	1880 ..	17,109	17,129	94	17,035	..	
	Sanambatla	1892 ..	5,133	5,139	90	5,049	..	
	Pakala A and B	1894 ..	2,035	2,035	..	2,035	..	
	Napier extension reserve	1900 ..	26	26	..	26	..	
	Penumur	1893 ..	1,146	1,146	..	1,146	..	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Chandragiri range—*cont.*	Panapákkam extension ..	1892 ..	9,000	9,000	2	8,998	..	
	Chandragiri hill	1892 ..	1,293	1,293	..	1,293	..	
	Penumur extensions A and B.	1893 ..	3,123	3,123	..	3,123	..	
	Penumur-Chittoor portion.	1891 ..	1,082	1,082	..	1,082	..	
	Tirupati extensions A and B.	1891 ..	6,032	6,032	..	6,032	..	
	Total, Chandragiri range.	..	96,982	109,940	1,588	108,352	..	
Palmanér range.	Peddanaikdrug	1880 ..	13,968	13,968	421	13,547	..	
	Mordana	1884 ..	9,037	9,037	..	9,037	..	
	Charagal	1888 ..	6,318	6,318	395	5,923	..	
	Peddur	1880 ..	15,994	15,994	868	15,126	..	
	Naickaneri	1880 ..	6,594	6,594	50	6,544	..	
	Palmanér	1892 ..	5,827	5,827	68	5,759	..	
	Peddur extension	1902 ..	8,905	8,905	103	8,802	..	
	Nellipatla	1895 ..	7,135	7,135	..	7,135	8	
	Basavareddipalli	1884 ..	5,006	5,006	55	4,951	..	
	Pattikonda	1893 ..	4,840	4,840	1	4,839	..	
	Melvoy	1884 ..	1,568	1,568	..	1,568	..	
	Musalimadagu extension.	1895 ..	1,875	1,875	..	1,875	..	
	Basavareddipalli extension A.	1895 ..	2,170	2,170	..	2,170	..	
	Basavareddipalli extension B.	1895 ..	5,792	5,794	..	5,794	..	
	Alapalli	1895 ..	2,029	2,029	..	2,029	..	
	Veerlabanda	1875 ..	2,569	2,569	..	2,569	..	
	Kotakanama	1895 ..	4,710	4,710	..	4,710	..	
	Total, Palmanér range ..	..	104,337	104,339	1,961	102,378	8	
Gudiyáttam range.	Naickaneri reserve ..	1884 ..	5,054	5,054	..	5,054	..	
	Mordana reserve (Gudiyáttam portion).	1884 ..	13,902	13,902	..	13,902	..	
	Amburdrug	1884 ..	9,246	9,246	..	9,246	..	
	Mordana extension ..	1891 ..	8,545	8,545	..	8,545	..	
	Gundlapalli	1894 ..	5,675	5,675	..	5,675	..	
	Synagunta	1891 ..	6,901	6,901	..	6,901	..	
	Charagal (Gudiyáttam portion).	1893 ..	10,994	10,994	..	10,994	..	
	Karapet	1892 ..	6,547	6,547	..	6,547	..	
	Naickaneri extension ..	1887 ..	1,568	1,568	..	1,568	..	
	Paradarami extension ..	1889 ..	1,888	1,888	..	1,888	..	
	Paradarami reserve ..	1903 ..	3,817	3,817	..	3,817	..	
	Jangalapalle	1903 ..	2,028	2,028	..	2,028	..	
	Pallalakuppam	1903 ..	6,156	6,156	..	6,156	..	
	Pallalakuppam extensions A and B.	1893 ..	5,883	5,883	..	5,883	..	
	Kempasamudram A and B.	1893 ..	1,214	1,214	..	1,214	..	
	Synagunta extension ..	1892 ..	2,396	2,396	..	2,396	..	
	Gundlapalli extension ..	1894 ..	928	928	..	928	..	
	Kallapadi reserve ..	1894 ..	6,945	6,945	..	6,945	..	
	Total, Gudiyáttam range.	..	99,687	99,687	..	99,687	..	
Vellore, East range.	Banavaram	1880 ..	1,021	1,021	..	1,021	..	
	Punganur	1884 ..	9,378	9,378	750	8,628	..	
	Ammur reserve	1884 ..	5,139	5,139	2,050	3,089	..	
	Vellore reserve	1892 ..	2,413	2,413	..	2,413	..	
	Ammanur reserve.. ..	1880 ..	203	203	..	203	..	
	Brahmanakatteri	1884 ..	561	561	..	561	..	
	Kodiyalam	1884 ..	161	161	..	161	..	
	Badur	1884 ..	835	835	..	835	..	
	Vengunam	1884 ..	1,288	1,288	..	1,288	..	
	Nambedu	1884 ..	947	947	..	947	..	
	Vishamangalam	1884 ..	1,148	1,148	..	1,148	..	
	Ponnur	1884 ..	1,656	1,656	..	1,656	..	
	Nedungal	1884 ..	2,298	2,298	..	2,298	..	
	Nambedu extensions A, B and C.	1895 ..	397	397	..	397	..	
	Sathur reserve	1884 ..	750	750	..	750	..	
	Nedungunam reserve ..	1884 ..	1,637	1,637	..	1,637	..	
	Arkonam plantation ..	1907 ..	58	58	..	58	..	
	Total, Vellore, East range.	..	29,890	29,890	2,800	27,090	..	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Vellore, West range.	Arasampet reserve ..	1887 ..	28,813	28,813	..	28,813	..	
	Vellakkal	1889 ..	5,037	5,037	..	5,037	..	
	Attiyur	1889 ..	4,800	4,800	..	4,800	..	
	Thellai	1891 ..	543	543	..	543	..	
	Karuthamalai	1882 ..	20,432	20,432	..	20,432	..	
	Nellimalai	1892 ..	2,734	2,734	..	2,734	..	
	Appukal	1892 ..	800	800	24	776	..	
	Shanankuppam	1893 ..	13,338	13,338	20	13,318	..	
	Pallikonda	1892 ..	3,898	3,898	205	3,693	..	
	Paravamalai	1892 ..	7,078	7,078	..	7,078	..	
	Vannivedu plantation ..	1880 ..	39	39	..	39	..	
	Total, Vellore, West range.	..	87,512	87,512	249	87,263	..	
Polur range.	Malayalam	1887 ..	27,765	27,765	..	27,765	..	
	Mulakad	1890 ..	15,570	15,570	..	15,570	..	
	Santhavasal	1890 ..	9,340	9,340	..	9,340	..	
	Thellai	1891 ..	14,662	14,662	..	14,662	..	
	Vellimalai	1893 ..	1,927	1,927	..	1,927	..	
	Virappanur	1886 ..	31,467	31,467	..	31,467	..	
	Kelur	1884 ..	2,878	2,878	..	2,878	..	
	Puthur reserve	1879 ..	18,458	18,458	..	18,458	..	
	Patrakad	1881 ..	25,254	25,254	..	25,254	..	
	Kappalur	1884 ..	1,504	1,504	..	1,504	..	
	Allialamangalam ..	1884 ..	9,784	9,784	..	9,784	..	
	Santavasal extensions A and B.	1892 ..	331	331	..	331	..	
	Total, Polur range ..	..	158,940	158,940	..	158,940	..	
Abstract of North Arcot General protection.	Chittoor	.. ..	82,471	83,052	20	83,032	..	
	Chandragiri	.. ..	96,982	109,940	1,588	108,352	..	
	Palmaner	.. ..	104,337	104,339	1,961	102,378	8	
	Gudiyáttam	.. ..	99,687	99,687	..	99,687	..	
	Vellore, West	.. ..	87,512	87,512	249	87,263	..	
	Do. East	.. ..	29,890	29,890	2,800	27,090	..	
	Polur	.. ..	158,940	158,940	..	158,940	..	
	Total of General protection ..		659,819	673,360	6,618	666,742	8	
	Total of Special protection ..		165,255	169,851	6,860	162,991	1,874	
	Total of Arcot North—Special and General.		825,074	(a)843,211	13,478	829,733	1,882	
South Arcot—Special protection—Tiruvanná-malai range.	Annamalai	1878 ..	1,726	1,727	230	1,497	160	
	Kavuthi	1878 ..	6,628	6,978	75	6,903	88	
	Tennalai	1877 ..	31,659	31,706	241	31,465	830	
	Nallápattu	1889 ..	5,094	5,094	100	4,994	..	
	Pelámarathúr	1889 ..	5,075	5,075	..	5,075	..	
	Paramanandal	1895 ..	1,513	1,517	365	1,152	..	
	Mudanai	1898 ..	7,042	7,042	3	7,039	..	
	Valasamalai	1883–84 ..	7,621	7,626	200	7,426	..	
	Nattampalli	1889 ..	5,188	5,188	65	5,123	157	
	Perungolathur Swami-malai.	1883–84 ..	6,056	6,056	212	5,844	235	
	Chinnasamudram ..	1900 ..	2,842	2,842	5	2,837	121	
	Damarakadu	1900 ..	3,762	3,764	54	3,710	39	
	Eraiyur	1907 ..	5,659	5,659	6	5,653	246	
Kallakurichi range.	Takarai	1883–84 ..	11,163	11,163	16	11,147	52	
	Parikam	1906 ..	549	549	28	521	215	
	Ravattanallúr	1907 ..	227	227	..	227	57	
	Kanai	1907 ..	741	741	..	741	21	
	Puttai	1907 ..	547	547	25	522	60	
	Rangappanur	1907 ..	560	560	..	560	57	
							49	
	Total, South Arcot—Special protection.	..	103,652	104,061	1,625	102,436	2,387	
North Salem—Special protection—Salem, West range.	Nagaramalai	1901 ..	199	284	..	284	38	
Tiruppattúr range.	Singarapet 1 to 7 ..	1881 ..	563	765	115	650	40	

(a) Corrected in the Board's office.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Salem Special Protection —*cont.* Hosúr range.	Melagiri	1885 ..	5,281	5,461	300	5,161	88	
	Kanavoi Kottapalli ..	1885 ..	742	742	50	692	26	
	Gulhatti	1885 ..	3,233	3,248	24	3,224	66	
	Manchi	1885 ..	2,982	3,285	78	3,207	128	
	Kanavanagasamudram ..	1885 ..	416	416	..	416	18	
	Total, Hosúr range ..	..	12,654	13,152	452	12,700	326	
	Total, Special protection.	..	13,416	14,201	567	13,634	404	
General protection—Tiruppattúr and Krishnagiri ranges.	Alangayam coupes V-29. 2, 3, 4, 6, 27 and 28.	1891 ..	1,703	2,870	130	2,740	80	
	Kalarapatti 2	1895 ..	728	330	..	330	37	
	Pungalam coupes 1 to 4 ..	1895–96 ..	1,098	1,093	10	1,083	31	
	Andiappanur coupes 11, 12, 13 and 14.	1894 ..	796	877	70	807	31	
	Govindapuram coupes 1 to 3.	1895 ..	351	518	150	368	40	
	Kottur (Yelagiri) ..	1885 ..	1,225	1,225	..	1,225	52	
	Neralkotta coupes 3 to 6.	1896 ..	1,835	1,471	..	1,471	51	
	Maharajagadai coupes 3 to 6.	1896 ..	1,888	1,545	..	1,545	52	
	Mangalam	1901–02 ..	641	..	..	..	..	
	Mambakkam coupes 6 and 7.	1904–05 ..	235	295	200	95	16	
	Varatanapalli coupe 1 ..	1905–06 ..	690	690	..	690	32	
	Nandbanda coupe 2 ..	1904–05 ..	496	496	..	496	32	
	Burgur coupe 1	1905–06 ..	492	492	..	492	23	
	Nagaluthu coupes 1, 2 and 3.	1904–05 .	186	244	..	244	28	
	Jalarpet coupes 1, 2 and 3, Mangalam Extension.	1904–05 .	125	244	..	244	17	
	Vellakuttai coupe 1 ..	1907 ..	317	321	..	321	8	
	Total, Tiruppattúr and Krishnagiri ranges.	..	12,806	12,711	560	12,151	530	
Dharmapuri range.	Thoppur coupes 1 to 4 and 5.	1903–09 ..	605	605	..	605	96	
	Pennagaram coupe 1, Barigam.	1907–08 ..	257	257	..	257	24 18	
	Total, Dharmapuri range.	..	862	862	.	862	138	
Hosúr range.	Jowlagiri	1900 ..	4,803	5,160	..	5,160	117	
	Noganur coupes	1900 ..	338	338	..	338	28	
	Denkanikotta coupes 1 & 2.	1907–08 ..	276	276	18	258	21	
	Thellai coupe 1	1907–08 ..	195	195	..	195	6	
	Sanamavu grass farm. Do. reserve.	1907 ..	2,182	2,182	..	2,182	19 32	
	Total, Hosúr range ..	..	7,794	8,151	18	8,133	223	
Salem, West range.	Shevaroys West Working Circle, coupes 5—10.	1901 ..	1,134	2,039	350	1,689	189	
	Lokur Working Circle, coupes 1 to 5.	1902 ..	1,398	2,389	..	2,389	91	
	Sanyasimalai	1903 ..	112	799	5	794	645	
	Mary land	1903 ..	121					
	Shevaroys South Working Circle including bamboo coupes 5 to 9.	1902 .. 1893 ..	6,186	2,177	370	1,807	223	
	Total, Salem, West range.	..	8,951	7,404	725	6,679	1,148	
	Total, General Protection.	..	30,413	29,128	1,303	27,825	2,039	
	Total, North Salem, Special and General Protection.	..	43,829	43,329	1,870	41,459	2,443	

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem—Salem, East range—Fire line and patrol system.	Mallur Working Circle coupes 1 to 5.	1906 ..	480	480	..	480	30	
	Thirumanur Working Circle coupes 1 to 5.	1906 ..	589	589	..	589	38	
	Bodamalai Working Circle coupes 1 to 5.	1906 ..	316	316	6	310	23	
	Jalluthu Working Circle coupes 1 to 9.	1905 ..	1,232	1,848	..	1,848	69	
	Godamalai Working Circle coupes 1 to 9.	1905 ..	1,385	2,175	..	2,175	93 (for this and the next tract)	
	Godumalai experimental grass plot.	1907 ..	10	10	..	10		
	Pudupatti Working Circle coupes 1 to 9.	1905 ..	797	1,305	156	1,149	75	
	Kapputhu old coupes ..	1894 ..	187	187	..	187	30 (for this and the next tract)	
	Experimental grass and silage plots.	1907 ..	10	10	..	10		
	Manjavadi coupes 7 to 12.	1902 ..	4,133	2,253	35	2,218	210 (for this and the next tract)	
	Velampatti coupes 1 to 6.	1910 ..	..	2,275	..	2,275		
	Kurichi timber coupes 1 to 3.	1906 ..	1,736	1,736	373	1,363	40	
	Pungamaduvu and Kuthimaduvu timber coupes 1 to 3.	1906 ..	2,592	2,592	80	2,512	12	
Atúr range.	Jadayagounden Working Circle coupes 1 to 5.	1905 ..	795	1,355	7	1,348	78	
	Pattimedu Working Circle coupes 1 to 8.	1904 ..	538	1,038	10	1,028	78	
	Nagalur Working Circle coupes 1 to 6.	1904 ..	458	942	..	942	99	
	Mannur Working Circle coupes 1 to 4.	1904 ..	466	963	..	963	40	
	Thumbal Working Circle coupes 1 to 4.	1905 ..	133	532	..	532	30	
	Gangavalli Working Circle coupes 1 to 3 and Specially-protected coupes 1 to 5.	1907 ..	2,627	2,806	..	2,806	88	
	Mavar Working Circle coupes 1 to 4.	1907 ..	171	689	..	689	41	
Námakkal range.	Timber and Protective Working Circle felled and advance coupes 1 to 5 of Vanavasi Charcoal Working Circles of Vanavasi Working Plan.	1904 ..	188	2,946	..	2,946	19	
	Suriamalai coupes 1 to 10 of Railway Fuel Working Circle of Vanavasi Working Plan.	1904 .	1,349	2,353	..	2,353	36	
	Sholappadi Charcoal Working Circle coupes 1 to 5.	1904 ..	148	935	..	935	18	
	Jambuthu old coupes ..	1905 ..	708	708	..	708	47 (for this and the next tract)	
	Jambuthu new coupes ..	1910 ..	..	328	..	328		
	Karavalli new coupes ..	1910 ..	..	320	..	320	..	
	Shelur old coupes 1 to 5 .. and	1905 ..	200 (for this and the next line)	410	..	410	11	
	New coupes 1 to 4	1910 ..						
Harur, South range.	Mallapuram Specially-protected block.	1882 ..	606	606	7	599	13	
	Mookkanur Specially-protected block.	1901 ..	960	960	..	960	85	
	Shevaroys North Working Circle coupes in Yerimalai and Mallapuram Ghat.	1902–1903.	3,719	4,845 (for this and the next tract)	316	4,529	124	
	KuriappaKombai Specially-protected block.	1897 ..	181					
	Shevaroys North Working Circle coupes in Bodakad, Narthucbedu and its extension.	1910 ..	..	2,693	..	2,693	90	
	Kouramalai Working Circle coupes 1 to 8.	1902–1903.	2,461	3,280	..	3,280	85	

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

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1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem—*cont.* Harur South range—*cont.*	Chitteri South-West Working Circle, coupes 1 to 8.	1902–1903.	2,257	3,614	..	3,614	141	
	Experimental cultivation ground in Shevaroys North Working Circle, coupe 4.	1908–1909.	100	100	..	100	..	
Harur North range.	Harur Working Circle—							
	Morappur coupes 1 to 7.	1902 ..	1,313	1,043	..	1,043	28	
	Ponnagarapatti coupes 1 to 7.	1902 ..	1,023	714	32	682	28	
	Poyyapatti coupes 1 to 7 and Vethapatti coupes 1 to 5.	1902 ..	899	1,019	32	987	41 18	
	Ponniar Working Circle—							
	Poovampatti coupes 1 to 6.	1902 ..	1,684	1,444	30	1,414	102	
	Kallavi Working Circle, coupes 1 to 6.	1907–1908.	1,836	1,401	2	1,399	56	
	Elavambadi Working Circle, coupes 1 to 5.	1907–1908.	1,199	1,199	85	1,114	24	
	Harur Working Circle—							
	Harur reserve except coupes 7 to 12.	1882 and 1902.	1,670	1,482	30	1,452	126	
	Chitteri North Working Circle—							
	Tirtamalai coupe 1 ..	1902 ..	451	451	10	441	39	
	Veppampatti coupes 1 to 4.	1902 ..	2,251	1,801	..	1,801	67	
	Total, Fire line and Patrol system.	..	43,858	58,753	1,211	57,542	2,272	
Gang system, Atúr range.	Varagur, Varagur extension and Nayakankombai R.F.	1907 ..	24,311	8,259	..	8,259	61	
Harur South range.	Mallapuram ghat except coupe 5.	1907 ..	23,705	1,246	..	1,246	8	
	Mallapuram ghat extension, Ajjampatti, Mangalakkal, Bonthikal, Northerechedu Extension West and North-west portion of Northerechedu R.F.	1907 ..		3,719	..	3,719	13	
	Northerechedu and Bodakad except coupes 10 to 13.	1907 ..		2,954	6	2,948	44	
	Vaniar reserve	1907 ..		5,139	..	5,139	40	
	Kuttar and its extension.	1907 ..		6,810	2	6,808	53	
	Total, Gang system ..	..	48,016	28,127	8	28,119	219	
Reward system—Salem East range.	Methikuttai	1910 ..	.	3,682	77	3,605	No rewards for this year's protection under reward system has yet been awarded.	
	Pungamaduvu and Kuthimaduvu.	1907–1908.	4,190	4,240	1,333	2,907		
	Kurichi	1907–1908.	7,064	2,336	326	2,010		
Harur South range.	Dombakkal Extension, northern portion of Dombakkal.	1907 ..	15,171	10,367	150	10,217		
	Nochikuttai extension, south part of Dombakal and a portion of Nochikuttai R.F.	1907 ..	14,728	10,777	355	10,422		
	Remaining portion of Nochikuttai Reserve.	1907 ..		8,835	949	7,886		
	Pallipatti Reserve except coupes.	1910 ..	..	7,578	470	7,108		
Harur North range.	Kottapatti	1908 ..	11,561	11,561	306	11,255		
	Do. extension ..	1908 ..	13,384	13,384	160	13,224		
	Karungal	1908 ..	5,919	5,919	220	5,699		
	Veppampatti extension ..	1908 ..	4,602	4,602	75	4,527		
	Chitlingi	1908 ..	8,318	8,342	142	8,200		
	Do extension ..	1908 ..	3,069	3,069	..	3,069		
	Ammapalayam	1908 ..	10,578	10,578	..	10,578		
	Chitteris	1907 ..	3,459	3,459	4	3,455		
	Do. extension ..	1907 ..	5,971	5,971	60	5,911		

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

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1	2	3	4	5	6	7	8	9
	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
South Salem—Harur North range.	Kalnad	1907 ..	5,793	5,793	141	5,652		
	Do. extension	1907 ..	1,440	1,440	10	1,430	*Nil.*	
	Tirtamalai	1908 ..	14,873	14,873	35	14,838		
	Veppampatti	Do. ..	8,425	8,879	55	8,824		
	Total, Reward system ..	..	138,545	145,685	4,868	140,817	..	
	Total, under special Fire line and Patrol system.	..	43,858	58,753	1,211	57,542	2,272	
	Reward System ..	..	138,545	145,685	4,868	140,817	Reward not disbursed yet.	
	Gang System ..	..	48,016	28,127	8	28,119	219	
	Total of Salem South Special and General.	..	230,419	232,565	6,087	226,478	2,491	
Trichinopoly area under Special fire protection—Musiri range.	Sengattupatti R. F. ..	1885-86 ..	4,192	4,192	19	4,173	..	
	Manmalai R. F.	1887-88 ..	7,686	7,686	10	7,676	..	
	T. Kanapadi R. F. ..	Do. ..	4,723	4,723	131	4,592	..	
	Karuppan Kadu Thittu R. F.	Do. ..	320	320	..	320	..	
	Mélúr R. F.	1885-86 ..	1,107	1,107	..	1,107	..	
	V. Kanapadi R. F. ..	1887-88 ..	3,795	3,795	..	3,795	..	
	Palamalai R. F.	1888-89 ..	6,624	6,624	80	6,544	..	
	Kaliammankoil Thittu R. F.	1889-90 ..	512	512	..	512	..	
	Kanapadi Kannimar sholai.	Do. ..	345	345	..	345	..	
	Total ..	..	29,304	29,304	240	29,064	86	
Perambalúr range.	Manalodai R. F.	1885-86 ..	3,059	3,059	..	3,059	..	
	Sholamathi R. F. ..	Do. ..	3,584	3,584	..	3,584	..	
	Selaiyur R. F.	1889-90 ..	282	282	..	282	..	
	Puliyur R. F.	1890-91 ..	3,443	3,443	..	3,443	..	
	Sengathur R. F.	Do. ..	1,325	1,325	..	1,325	..	
	Valayur R. F.	1900-01 ..	2,064	2,064	..	2,064	..	
	Arasadi Arivithi R. F. ..	Do. ..	3,546	3,546	..	3,546	..	
	Pulambadi No. 1 ..	Do. ..	2,506	2,506	..	2,506	..	
	Total of Perambalúr range.	..	19,809	19,809	..	19,809	..	
	Total, Special ..	..	49,113	49,113	240	48,873	86	
Area under general protection—Vaiyampatti range—	Shemmalai No. II R. F. ..	..	..	50	50	..	..	
	Total ..	..	..	50	50	..	..	
	Total of Trichinopoly Special and General.	..	49,113	49,163	290	48,873	86	
	Tanjore—*Nil.*							
Guntúr—Special.	Venkatayapalem reserve Compartments I, II, III	1894-1895.	15,588	15,588	..	15,588	..	
	Bollapalli reserve, Compartments I to VI.	1885-1886.	18,584	18,584	..	18,584	..	
	Coupes in Vinukonda range.	1903-1904.	700	700	..	700	..	
	Gangalagunta reserve ..	1890-1891.	5,008	5,008	..	5,008	..	
	Paswemula reserve ..	1892-1893.	1,088	1,088	..	1,088	..	
	Coupes in Palnad range ..	1905-1906.	4,076	4,076	..	4,076	..	
	Mutukúr reserve	1905-1906.	3,245	3,245	..	3,245	..	
	Coupes in Sattenapalli range.	1905-1906.	552	552	..	552	..	
	Kondavid reserve ..	1905-1906.	600	600	..	600	..	
	Tadepalli reserve ..	1905-1906.	300	300	..	300	..	
	Total in acres ..	..	49,741	49,741	..	49,741	..	

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	Central Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Guntúr—General.	Venkatayapalem reserve..	..	24,978	24,978	..	24,978	..	
	Gangalagunta do. ..	..	17,659	17,659	..	17,659	..	
	Paswemula do. ..	..	18,375	18,375	..	18,375	..	
	Total in acres ..	..	61,012	61,012	..	61,012	..	
	Total, Guntúr, Special and General.	..	110,753	110,753	..	110,753	..	
	Circle total, Special ..	..	1,148,174	1,296,095	138,799	1,157,296	14,781	
	Circle total, General ..	..	1,112,885	1,114,692	13,241	1,101,451	4,716	
	Circle total, Special and General.	..	2,261,059	2,410,787	152,040	2,258,747	19,497	
	Southern Circle.							
South Canara—Special protection. Coondapoor range.	Sarpanamane and Savantagudde.	1886-87 ..	1,385	796	10	786	36	
	Honnukodlu	1894-95 ..	576	584	..	584	43	
	Herur	1893-94 ..	2,855	2,884	..	2,884	79	
	Talaburane	1895-96 ..	610	611	..	611	34	
	Chittur	1897-98 ..	2,234	2,234	100	2,134	42	
	Kadike	Do ..	2,794	2,735	..	2,735	30	
	Karnigadde	Do. ..	1,100	1,161	..	1,161	29	
	Gundaberu and Korakoppa coupes.	1904-05 ..	520	301	1	300	63	
	Guruvankote	1905-06 ..	216	..	..	..	..	Transferred to general protection.
	Abbigudde	1897-98 ..	1,407	1,458	.	1,458	40	
	Total, Coondapoor range..	..	13,697	12,764	111	12,653	396	
Udipi range.	Chinkramale and extension II.	1885-86 ..	2,558	2,564	..	2,564	60	
	Tenkahola and extension.	1886-87 ..	2,039	2,043	..	2,043	32	
	Mavinakodlu	1895-96 ..	1,356	1,627	1	1,626	33	
	Jatkatmale	1897-98 ..	1,484	1,386	..	1,386	29	
	Durgamale and extension.	Do. ..	1,601	1,607	1	1,606	56	
	Someshwar timber coupes I to VI.	1895-96 ..	1,067	1,260	..	1,260	80	
	Hale Someshwar and extension.	Do. ..	1,893	1,867	10	1,857	33	
	Vorwadi	1906-07 ..	923	823	..	823	34	
	Andar south coupes I to V.	Do. ..	108	160	..	160	29	
	Andar north coupes I to IV.	Do. ..	27	85	..	85	29	
	Hevea plantation	Do. ..	2	..	..	..	..	Transferred to general protection.
	Total, Udipi range ..	..	13,058	13,422	12	13,410	415	
Mangalore range.	Nujimale	1894-95 ..	3,136	3,200	..	3,200	33	
	Todar	1899-00 ..	458	..	..	..	..	Transferred to general protection.
	Hosabettu	Do. ..	376	..	..	..	..	
	Nanijimale	1897-98 ..	1,436	1,459	110	1,349	23	
	Panamberi	1902-03 ..	612	634	4	630	34	
	Hurabe	1903-04 ..	543	545	45	500	33	
	Kodiamale	Do. ..	1,131	1,169	42	1,127	45	
	Kodialmale	1906-07 ..	698	706	31	675	40	
	Total, Mangalore range ..	..	8,390	7,713	232	7,481	208	
Uppinangadi range.	Dharmastala and extension I.	1887-88 ..	4,645	4,998	..	4,998	97	
	Mujur	1901-02 ..	10,091	10,106	16	10,090	88	
	Miyar	Do. ..	17,024	17,533	400	17,133	89	
	Kombar	Do. ..	1,814	9,396	72	9,324	56	
	Kidu	Do. ..	4,969	6,414	714	5,700	27	
	Konaje	Do. ..	6,623	6,632	136	6,496	72	
	Porkala	1902-03 ..	4,241	1,020	..	1,020	36	
	Padnur	Do. ..	3,151	3,157	..	3,157	57	
	Kuntur and extension I ..	Do. ..	3,936	3,647	370	3,277	67	

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1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS	
South Canara—Special protection—*cont.* Uppinangadi range—*cont.*	Nerankimale	1902–03 ..	3,795	2,848	53	2,795	53	
	Nidle	Do. ..	2,430	3,258	227	3,031	50	
	Shibaje	Do. ..	2,816	2,944	60	2,884	59	
	Kadambilla	Do. ..	1,745	1,848	5	1,843	34	
	Porkala coupes I to III and V.	1904–05 ..	1,997	4,050	1	4,049	107	
	Nerankimale coups I and III.	1907–08 ..	1,920	1,112	640	472	8	
	Total, Uppinangadi range.	..	71,197	78,963	2,694	76,269	900	
Puttur range.	Parappa	1896–97 ..	2,551	2,560	.	2,560	106	
	Kanakamajulu	1899–1900.	2,242	2,249	20	2,229	76	
	Veerakamba	1897–98 ..	1,612	1,605	31	1,574	54	
	Kalanjimale	1898–99 ..	3,011	2,898	21	2,877	67	
	Kilarmale cardamom plantation.	1901–02 ..	100	..	..	..	..	Transferred to General protection.
	Mulliar	1903–04 ..	2,112	2,116	3	2,113	83	
	Medinadka and extension.	..	..	3,843	185	3,658	37	
	Total, Puttur ..	..	11,628	15,271	260	15,011	423	
	Total, South Canara—Special.	..	117,970	128,133	3,309	124,824	2,342	
General protection—	Coondapur range	..	7,790	141,588	565	141,023	324	
	Udipi range	..	3,080	59,858	212	59,646	32	
	Mangalore range	..	..	28,099	551	27,548	..	
	Uppinangadi range ..	..	282	92,302	2,049	90,253	10	
	Puttur range	..	..	109,490	2,151	107,339	3	
	Total, South Canara—General.	..	11,152	431,337	5,528	425,809	369	
	Total, South Canara—Special and General.	..	129,122	559,470	8,837	550,633	2,711 (*b*)+ 764	
Malabar, North—Special Chedleth range.	Kurchiyat	1887–88 ..	17,953	18,053	..	18,053	2,029	
	Kuppadi	Do. ..	7,337	7,337	..	7,337		
	Rampur	Do. ..	14,854	18,854	100	18,754		
	Mavanhalla ..	Do. ..	12,436	12,736	725	12,011		
	Nulpoya	1908 ..	3,458	3,458	..	3,458		
	Total, Chedleth ..	..	56,038	60,438	825	59,613	2,029	
Begur range.	Begur reserve	1882–83 ..	14,651	15,366	50	15,316	1,337	
	Kudrakotte reserve ..	1905–06 ..	4,041	4,047	..	4,047		
	Tirunelli	1909–10 ..	..	5,600	5,600	..		
	Hill dale	Do. ..	..	7,500	7,500	..		
	Total, Begur ..	..	18,692	32,513	13,150	19,363	1,337	
Kanoth range.	Kanoth	1908 ..	20,033	20,083	..	20,083	833	
	Peria	Do. ..	13,712	13,712	..	13,712		
	Kottiyur	Do. ..	13,715	13,715	..	13,715		
	Total, Kanoth ..	..	47,460	47,510	..	47,510	833	
	Total, North Malabar ..	..	122,190	140,461	13,975	126,486	4,199 (*a*) + 201	
Malabar, South—Special Nilambúr range.	Old Amarampalam reserve.	1860–61 ..	468	468	..	468	66	
	Chathamborai do. ..	1872–73 ..	624	624	..	624	138	
	Teak plantations	1842–43 ..	3,516	3,516	..	3,516	625	
	Edakode natural forests (including Vellachipally).	1898–99 ..	3,228	3,263	..	3,263	124	
	Pokote natural forests ..	1904–05 ..	525	525	..	525	69	
	Arimbrakuthamalai ..	1899–1900.	322	322	10	312	57	
	Kanakuth natural forests.	1908–09 ..	653	668	..	668	63	
	Erambadam natural forests.	Do. .	575	581	.	581	65	
	Total, Nilambúr ..	..	9,911	9,967	10	9,957	1,207	

(*a*) Variations as per Accountant-General audited figures.

(*b*) Fire tracing cart tracks 6
Fire tracing South Canara-Mysore boundary 674
Cost of previous season disbursed during 1909–1910 84

Total .. 764

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
Malabar South—Special—*cont.*	*Southern Circle*—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
Amarampalam range.	Karimpoya reserve ..	1884–85 ..	3,955	3,955	2	3,953	393	
	Nellikutha do. ..	1883–84 ..	1,816	1,824	..	1,824	140	
	New Amarampalam do. ..	1889–90 ..	75,000	75,000	..	75,000	267	
	Kariem, Muriem forests ..	1901–02 ..	2,710	2,716	..	2,716	195	
	Total, Amarampalam ..	..	83,481	83,495	2	83,493	995	
Mannarghat range.	Panakadan reserve ..	1905–06 ..	902	1,104	..	1,104	95	
	Total, South Malabar ..	..	94,294	94,566	12	94,554	2,297	
The Nilgiris—Special protection—Mudumalai range.	Mudumalai leased forests.	1883 ..	2,400	48,000	3,600	44,400	2,995	
	Benne reserve	1886 ..	350	350	..	350		
	Total, Mudumalai ..	..	2,750	48,350	3,600	44,750	2,995	
Sigur range.	Moyar reserve, Northern Hay and Moyar plantations and Sigur sandalwood block.	1886 ..	11,016	14,180	3,000	11,180	637	
Ootacamund range.	Exotic plantations ..	1883 ..	1,166	1,170	2	1,168	105	
Coonoor range.	Exotic plantations ..	1883 ..	515	686		686	64	
	Sandalwood area	Do. ..	640	640	..	640		
	Other reserves	Do. ..	247	775	..	775		
	Total, Coonoor ..	..	1,402	2,101	..	2,101	64	
	Total, The Nilgiris—Special.	..	16,334	65,801	6,602	59,199	3,801	
Kollegal—Special protection—Kollegal range.	Bailur sandalwood compartment.	1895–96 ..	3,033	3,034	..	3,034	81	
	Udaiyárpálaiyam sandalwood compartment.	Do. ..	1,321	1,321	..	1,321	55	
	Jadathadi sandalwood compartment.	Do. ..	235	235	..	235	22	
	Aluvarai block	1903–04 ..	4,313	4,313	60	4,253	61	
	Araipalayam Working Circle.	Do. ..	3,144	3,144	180	2,964	68	
	Gundal Working Circle ..	Do. ..	1,846	1,824	..	1,824	85	
	Chickailur Working Circle.	Do. ..	2,935	2,975	..	2,975	81	
	Lokanhalli-Honnaibarai block.	1906–07 ..	19,200	19,200	..	19,200	135	
	Total, Kollegal ..	..	36,027	36,046	240	35,806	588	
Ramapuram range.	Ponnachibetta Madeswaranmalai reserve.	1906–07 ..	32,780	32,780	3,904	28,876	105	
	Mayilbetta block, Madeswaranmalai reserve.	1908–09 ..	2,048	2,048	.	2,048	61	
	Total, Ramapuram ..	..	34,828	34,828	3,904	30,924	166	
	Total, Kollegal Division—Special.	..	70,855	70,874	4,144	66,730	754 + (*a*) 182 (*b*) + 290	
General protection.	Kollegal and Ramapuram Ranges.	..	(*a*)394,146	396,824	55,773	341,051	..	
	Total, Kollegal Division—Special and General.	..	465,001	467,698	59,917	407,781	1,226 (*c*) + 16	
North Coimbatore—Special. Satyamangalam range.	Hassanur sandalwood compartment.	1895–96 ..	2,140	2,140	4	2,136	54	
	Geddasal Timber coupes, I and II.	1902–03 ..	4,434	4,704	..	4,704	29	
	Minchiguli Fire protected block.	1909–10 ..	..	19,721	3,060	16,661	77	

(*a*) Amount spent on clearing Mysore frontier line and Taluk boundary line.
(*b*) Pay of establishment.
(*c*) Added as per Accountant-General's audited figures.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
North Coimbatore—Special—*cont.*	Talamalai sandalwood compartment.	1897-98 ..	585	589	..	589	21	
	Badagalli sandalwood compartment.	1896-97 ..	685	685	..	685	6	
Talamalai range.	Hugathurbetta block ..	1903-04 ..	2,428	3,068	..	3,068	25	
	Kontibetta block.. ..	1905-06 ..	8,324	8,960	..	8,960	25	
Satyamangalam range.	Uginium Oshatti plateau.	1906-07 ..	12,800	12,800	..	12,800	72	
Bhavani range.	Thamarakarai reserve and sandalwood areas.	1908-09 ..	7,571	7,577	450	7,127	117	
	Clearing lines round the enclosures of Talakarai, Kengodai, Burgur, Oosimalai, Thattakerai, Bejallati, Madameratti Ondanai and Thamarakarai.	Do. ..	1,810	1,810	..	1,810	115	
	Total, North Coimbatore—Special.	..	40,777	62,054	3,514	58,540	541 (c) + 429 (d) + 286	
North Coimbatore—General.	Satyamangalam range ..	..	(a)164,824	165,832	4,522	161,310	..	
	Talamalai range	..	(a)130,394	135,194	..	135,194	..	
	Bhaváni do.	..	(a)211,366	214,753	6,598	208,155	..	
	Total, North Coimbatore—General.	..	(a)506,584	515,779	11,120	504,659	..	
	Total, North Coimbatore—Special and General.	..	547,361	577,833	14,634	563,199	1,256	
Central Coimbatore—Special. Bolampatti range.	Sholakarai Working Circle.	1883-84 ..	1,157	1,157	907	250		
	Thenkaradu	Do. ..	393	393	..	393		
	Oratti	Do. ..	1,136	1,136	..	1,136		
	Kutchimalai . ..	Do. ..	1,515	1,545	..	1,545		
	Keerapatti	Do. ..	2,260	2,260	..	2,260		
	Noyel	Do. ..	10,072	10,920	4	10,916	1,060	
	Vellingiri	Do ..	5,162	5,240	845	4,395		
	Varadimudi	Do. ..	7,956	7,960	..	7,960		
	Kanavarai	Do. ..	13,845	13,880	253	13,627		
	Tadagam Working Circle.	1908-09 ..	287	287	287	..		
	Naickenpalaiyam	Do. ..	239	239	9	230		
	Walayar reserve	1873-74 ..	3,010	3,017	80	2,937		
Attapadi range.	Chenat Nair reserve ..	1884-85 ..	14,353	15,203	..	15,203		
	Dhoni reserve	1898-99 ..	45	45	..	45	401	
	Pulliampalli tope ..	1900-01 ..	20	20	..	20		
	Tambirattipettai Patti ..	1891-92 ..	119	124	20	104		
Mettupalaiyam range.	Singaratope Working Circle.	1891-92 ..	777	777	..	777		
	Oodanthorai Working Circle.	1908-09 ..	852	852	..	852		
	Nellimalai Working Circle.	Do. ..	483	483	..	483		
	Sundapatti Working Circle.	Do. ..	401	401	..	401	892	
	Thadagam Working Circle.	Do. ..	88	88	10	78		
	Jackanare Working Circle.	Do. ..	518	518	230	288		
	Hullical do.	Do. ..	401	401	..	401		
	Kotagiri road Working Circle.	Do. ..	723	723	..	723		
	Total, Central Coimbatore—Special.	..	65,812	67,669	2,645	65,024	2,353	
General.	Mettupalayam and Bolampatti ranges.	..	97,208	97,464	230	97,234	..	
	Erode range	..	..	15,409	3	15,406	..	
	Attapadi range	..	..	51,770	450	51,320	..	
	Total, Central Coimbatore—General	..	97,208	164,643	683	163,960	..	
	Total, Central Coimbatore—Special and General.	..	163,020	2,32,312	3,328	228,984	2,353 (b) + 1	

(a) Areas not shown in last year's return.
(b) Variations as per Accountant-General's audited figures.
(c) Amount spent on clearing Mysore boundary, etc.
(d) Pay of fire patrols.

Area of Forest Tracts protected from Fire during 1909–1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
			ACS.	ACS.	ACS.	ACS.	RS.	
South—Coimbatore—Special—	*Southern Circle*—cont.							
Tunacadavu range.	Tekadi leased forests ..	1882–83 ..	17,414	17,414	289	17,125	1,044	
Pollachi and Punachi ranges.	Portion of Tunacadavu reserve No. I.	Do. ..	8,960	8,960	659	8,301	553	
	Punachi reserve No. II.	1888–89 ..	2,880	2,880	6	2,874		
Udamalpet range.	Dhalli reserved forest ..	1883–84 ..	485	630	..	630	65	
	Amaravathi Working Circle.	1908–09 ..	101	237	..	237		
	Kamanuthu Working Circle.	Do. ..	107	208	..	208		
	Dhalli Working Circle ..	1909–10 ..	..	317	..	317		
	Total, South Coimbatore—Special.	..	29,947	30,646	954	29,692	1,662	
General ..	Tunacadavu range ..	..	24,226	24,226	..	24,226	..	
	Tunacadavu, Pollachi, Punachi and Udamalpet ranges.	..	232,793	* 169,958	230	169,728	..	
	Total, South Coimbatore—General.	..	257,019	194,184	230	193,954	..	
	Total, South Coimbatore—Special and General.	..	286,966	224,830	1,184	223,646	1,662	
Madura—Special.	Ambruvi	1886–87 ..	10,674	10,769	300	10,469	1,897	
	Sengalvarayar	1885–86 ..	4,608	4,608	..	4,608		
	Pambar	1883–84 ..	3,783	4,243	200	4,043		
	Adukkam	1885–86 ..	5,725	5,935	257	5,678		
	Poombarai Vilpatti valley.	1884–85 ..	17,594	17,594	72	17,522		
	Kurungal Dhoni Medu ..	1885–86 ..	2,786	2,816	8	2,808		
	Kukkal	1886–87 ..	11,725	11,725	..	11,725		
	Kudaryar	Do. ..	13,235	13,235	..	13,235		
	Perumalmalai	Do. ..	7,360	7,360	1,800	5,560		
	Thogavaraishola							
	Talayarkadu							
	Kadamaruvu							
	Obeynathur odai	1888–89 ..	4,352	4,352	25	4,327		
	Parappar	1902–03 ..	56	56	15	41		
	Gundar valley extension.	Do. ..	5,860	5,860	..	5,860		
	Ampthill Down reserve..	Do. ..	31,219	31,276	350	30,926		
	Perumalmalai shola ..	Do. ..	280	280	277	3		
	Anagiri	Do. ..	76	76	..	76		
	Tiger shola	Do. ..	1,259	1,260	..	1,260		
	Glen falls	Do. ..	36	36	..	36		
	Gundar valley	Do. ..	4,590	4,590	250	4,340		
	Samikanal	Do. ..	1,620	1,620	700	920		
	Keelanavayal	Do. ..	559	559	..	559		
	Alagarhill	1882–83 ..	16,828	16,838	..	16,838	580	
	Total, Madura—Special.	..	144,220	145,088	4,254	140,834	2,477 (*a*) + 13	
Tinnevelly—Special. Srivilliputtur.	Aiyanarcoil Working Circle.	1902 ..	4,061	4,722	902	3,820	141	
Sankaranayinarkoil.	Karuppaswamikoil Working Circle.	Do. ..	5,751	6,155	..	6,155	229	
	Puliangudi Working Circle.	1907 ..	2,893	2,897	3	2,894	80	
Tenkási ..	Kadayanallur Working Circle.	1902 ..	2,446	2,446	70	2,376	34	
	Kuttalam Working Circle.	Do. ..	2,640	2,644	12	2,632	98	
Ambasamudram.	Koilteri Working Circle.	Do. ..	2,013	2,013	..	2,013	89	
	Padarmalai ,,	Do. ..	3,045	3,045	10	3,035	94	
	Sivasylum ,,	1907 ..	3,154	3,154	..	3,154	60	
Nanguneri.	Kalakad ,,	1902 ..	2,918	2,918	..	2,918	166	
	Tirukurungudi ,,	Do. ..	2,538	2,538	..	2,538	105	
	Kopparai ,,	1905 ..	1,245	1,245	..	1,245	71	
	Total, Tinnevelly—Special.	..	32,704	33,777	997	32,780	1,167	

* Excludes area of evergreen forests. (*a*) Expenditure incurred in putting out fires.

Area of Forest Tracts protected from Fire during 1909-1910—*cont.*

District.	Forest tracts.	Year in which protection commenced.	Area protected during the previous year.	During the year under report. Area attempted to be protected.	Fires.	Actually protected.	Cost during the year under report.	Remarks.
1	2	3	4	5	6	7	8	9
	Southern Circle—cont.		ACS.	ACS.	ACS.	ACS.	RS.	
General	Srivilliputtur	1902	32,132	38,791	525	38,266	302	
General	Sankaranainarkoil	Do.	19,629	20,379	1,300	19,079	356	
General	Tenkasi	Do.	20,201	21,664	4,667	16,997	383	
General	Ambasamudram	Do.	103,020	104,740	13,270	91,470	275	
General	Nanguneri	Do.	44,145	44,848	2,158	42,690	110	
	Total, Tinnevelly—General.	..	219,127	230,422	21,920	208,502	1,426	
	Total, Tinnevelly—Special and General.	..	251,831	264,199	22,917	241,282	2,593 (b) — 1	
	Total, Southern Circle, Special.	..	735,103	839,069	40,406	798,663	22,793	
	Total, Southern Circle, General.	..	584,506 (a)+900,730	1,933,189	95,254	1,837,935	1,795	
	Grand total, Southern Circle.	..	1,319,609 (a)+900,730	2,772,258	135,660	2,636,598	24,588 + 764 (b) + 217	
	Total, Presidency—Special.	..	2,346,045	2,857,754	330,920	2,526,834	84,901	
	Total, Presidency—General.	..	2,175,442 (a)900,730	3,655,695	259,382	3,396,313	20,603	
	Grand total—Presidency.	..	4,521,487 (a)900,730	6,513,449	590,302	5,923,147	105,504	

(a) Areas not shown in last year's return. (b) Variations as per Accountant-General's audited figures.

ANNUAL FORM No. 73.

Forest Department, Madras Presidency.

AREA closed and open to grazing during 1909-1910.

District.	Area in square miles.						
	Closed to all animals.		Closed to both goats and sheep.		Area closed to goats only.	Open to all animals.	Total forest area as per Form No. 65.
	Whole year.	Part of year.	Whole year.	Part of year.		Whole year.	
1	2	3	4	5	6	7	8
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle.							
Ganjám	87	..	..	..	598	..	598
Vizagapatam ..	10 ..	.. ..	288 4	.. ..	10 ..	.. ..	298 4
Gódávari, Upper	1	..	..	..	428	..	428
Do. Lower ..	13 75	.. ..	271 ..	.. ..	136 75	.. ..	407 75
Kistna	37 ..	7 ..	.. ..	.. ..	197 ..	74 19	278 19
Kurnool, East	187	83	..	..	1,395	..	1,478
Do. West	196	11	..	..	1,151	..	1,162
Bellary	70 33	.. ..	.. ..	.. ..	459 33	165 33	624 66
Anantapur	105 ..	.. ..	.. ..	.. ..	535 29	.. ..	535 29
Total ..	706 108	101 ..	559 4	.. ..	4,909 137	239 52	5,808 193
Central Circle.							
Cuddapah, North	35	..	..	..	654	82 18	735 1
Do. East	89	..	..	..	1,065	16	1,083
Do. South	12	..	..	..	513	65	529
Nellore	33	4	60	2	606	2	737
Chingleput	41	..	..	..	211	..	213
Arcot, North	161	..	..	..	1,262	30	1,289 3
Do. South	24	..	..	..	666	..	666
Salem, North	72	..	72	..	846	59	931 45
Do. South	55	..	..	..	676	..	670 6
Trichinopoly	17	..	..	..	285	..	280 5
Tanjore	6	..	..	..	20	..	19 1
Guntúr	167	..	..	..	695	119	814
Total ..	712	4	132	2	7,499	391	7,966 62
Southern Circle.							
Canara, South	11 ..	.. ..	.. ..	.. ..	861 114	.. ..	872 114
Malabar, North	30 ..	.. ..	231 1	.. ..	.. ..	.. ..	261 1
Malabar, South	163 64	.. ..	.. ..	.. ..	.. ..	.. ..	163 64
Nilgiris, The	8 2	.. ..	.. ..	.. ..	474 84	.. ..	482 86
Kollegal	96 10	.. ..	.. ..	.. ..	351 248	.. ..	447 258
Coimbatore, North ..	14 * ..	2 * ..	.. ..	.. ..	887 15	.. * 1	903 16
Coimbatore, Central ..	53 47	1 ..	.. ..	.. ..	253 ..	.. ..	307 47
Coimbatore, South ..	20	..	..	..	437	..	457
Madura	109	..	..	..	451	106	666
Tinnevelly	233 2	39 ..	3 ..	.. ..	162 ..	.. ..	437 2
Total, Southern Circle ..	737 125	42 ..	234 1	.. ..	3,876 461	106 1	4,995 588
Grand total	2,155 233	147 ..	925 5	2 ..	16,284 598	736 53	18,769 843

N.B.—Of the figures in brackets, the upper ones denote the area of reserved forests and the lower ones the area of reserved lands.

* The area of columns 2, 3 and 7 is individually below 1 square mile, but collectively 1 square mile.

ANNUAL

Forest Department,

RETURN of Grazing in the

District.	Grazing on payment. Number — At enhanced or special rates. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	At full rates. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.					RS.					RS.
Ganjám (a-12)	..	..	..	..	..	11,530	39,403	S 270	..	11,737
Vizagapatam	(a) 117	(a) 3,225	(a) S 3,935	..	1,357	1,316	17,515	S 3,844	..	4,138
Gódávari, Upper	(b) 33	(b) 7,237	..	..	2,278	..	..	..	..	..
Do. Lower	(a) 10,053 (f) 987	(a) 13,626 (f) 396	..	..	9,322	(g) 1,994	(g) 13,141	.. Penalty collected for loss of permits. Sale-proceeds of fodder grass.	..	2,141 3 129
Kistna	.. (j) 1,079	(i) 2,560 (j) 8,720	(i) G 7,303 (j) S 3,115	.. ..	9,049	7,439	23,953	S 19,532	..	9,112
Kurnool, East	(a) 8,620 ..	(a) 81,015 (X) 3,036	(a) S 45,988 (X) S 1,706	.. ..	30,312 486	2,387 ..	12,025 ..	S 44,138	..	7,288
Do. West	(a) 9,555	(a) 31,910	(a) 13,743	Fodder grass 114 C. L.	14,509	6,139	37,244	S 25,638	Fodder grass 14 C.L.	11,693
Bellary	..	..	..	..	..	11,887	47,046	S 176,606 G 120,998	..	41,179
Anantapur	..	..	..	..	..	3,093	42,879 (k) 2,678	S 118,169 (k) 12,488	.. ..	21,114
Total ..	30,444	1,51,725	S 68,487 G 7,303	Fodder grass 114 C.L.	67,313	45,785	235,884	S400,685 G120,998	Fodder grass 14C.L.	1,08,534
Unreserved lands—Gódávari, Lower ..	(a) 5,901	(a) 8,584	(a) S 30	..	5,100	..	..	Sale proceeds of pasture.		980
CENTRAL CIRCLE.										
Cuddapah, North	..	..	..	..	..	1,252	30,831	13,331 G .. 115,721 S	.. .. ..	23,764 (m) 2 (n) 766
Do. East	..	..	..	..	..	4,737	43,095	4,285 G 89,859 S	.. ..	20,423
Do. South	..	..	..	..	..	2,667	54,816	496 G 81,320 S	.. ..	19,149
Nellore	.. ..	(l) 70,943 ..	(l) 27,129 G 142,356 S	.. ..	.. 42,313	.. 8,413	.. ..	..	..	3,155
Chingleput	..	..	..	..	..	3,213	35,553	537 G 61,105 S	.. ..	13,734 (n) 1,913
Arcot, North	..	..	..	..	..	5,881	127,796	8,604 G 138,565 S	.. ..	45,611
Do. South	..	(s) 17,929	(t) 105 S	..	4,503	5,191	113,534	172,280 S	..	39,386
Salem, North	(v) 1,906 (a-7) 20 ..	(w) 83,767 (a-6) 42 (a-8) 20	(x) 21,802 S (a-5) 8,340 G ..	.. .. ..	(o) 28,800 (a-9) 437 ..	257	49,844	16,855 S	..	(a-3) 11,440
Do. South	..	..	..	..	..	1,698	110,657	48,440 S	..	(a10) 25,933
Trichinopoly	..	..	..	..	..	1,061	25,109	133,211 S	..	17,594
Tanjore	..	..	..	..	..	243	1,624	3,062 S	..	(a-4) 838
Guntúr	(y) 667 (z) 6,064	(y) 3,534 (z) 68,538 (a-1) 521 (a-2) 3,629	(y) 5,970 G 12,756 S (z) 59,691G 102,847S ..	.. ..	3,558 60,726 293 3,629	10,009	12,270	19,959 G 75,462 S	.. ..	15,000 .. ..
Total ..	8,657	248,923	101,130 G 279,866 S	..	144,259	44,622	605,129	47,212 G 935,890 S	.. ..	2,38,708

G = Goats. S = Sheep. X = Young ones at half rates. C.L. = Cart Loads.

The full rates are 6 annas per buffalo, 3 annas per cow and annas 1–6 per sheep.

(a) The enhanced rates are 8 annas per buffalo, 4 annas per cow or bullock and 2 annas per sheep.

(b) The enhanced rates are 8 annas per buffalo, 5 annas per bullock or cow for alien cattle in the Nugur Range.

(c) The special rates in the Nugur Range per way cattle are 2 annas per buffalo, 1 anna per cow or bullock, 9 pies per goat and 6 pies per sheep.

(d) The privileged rates in the Nugur Range are 4 annas per buffalo, 2 annas per cow or bullock, 1 anna 3 pies per goat, 1 anna per sheep and 2 annas per horse.

(e) The privileged rates in the Bhadráchallam, Marrigudem and Rekapalle Ranges are 2 annas per buffalo, 1 anna per cow and 6 pies per sheep. (f) The enhanced rates are 12 annas per buffalo and 6 annas per cow or bullock.

(g) The full rates in Gódávari, Lower, are 4 annas per buffalo and 2 annas per cow or bullock.

(h) The privileged rates are 1 anna per buffalo and 1 anna per bullock or cow.

(i) The enhanced rates are 1 rupee per bullock and 4 annas per goat.

(j) The enhanced rates are 12 annas per buffalo, 6 annas per cow and 3 annas per sheep.

(k) The rates are 1 anna 6 pies per cow and 9 pies per sheep.

(l) Cow or bullock at As. 4, sheep As. 2 and goats As. 4. (m) Penning fees. (n) Compounding fees.

(o) Ninety-nine cows at As. 1–6 and 82 cows at 1 anna. (p) Three hundred and fifty sheep at 9 pies and 342 sheep at 6 pies.

(q) Less than a rupee. (r) Includes kancha rent and value of chits for fodder grass and leaves and advance payments made by G.P.I.Os.

(s) Forty-three cows at As. 5 per cow for grazing in three blocks on a single permit.
Thirty cows at As. 6 per cow for grazing in the plantations. 17,856 foreign cows at As. 4 per cow.

(t) 50 sheep at As. 2 to graze in two blocks on a single permit. 55 sheep at As. 2–6 to graze in three blocks on a single permit.

(a-12) Excludes 47 cows and bullocks licensed to graze on payment in the Chandragiri Range, Parlákimedi Maliahs, the fees realised being Rs. 8-13-0.

FORM No. 74.

Madras Presidency.

State forests during 1909–1910.

of animals. At privileged rates. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Value at full rates.	Grazing free. Number of animals. By right under settlement. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	During pleasure of Government or otherwise than under settlement. Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				RS.	RS.					RS.					RS.	RS.	RS.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11,737
..	..	..	..	..	..	..	200	..	..	38	..	4,939	..	..	926	964	6,459
(c) 60	(c) 9,204	(c) G 102 (c) S 231	..	595	1,779												
(d) 5,623	(d)27,062	(d) G 4,964	(d) 8	5,390	7,969	..	..	..	..	..	4,217	48,693	153	..	10,726	10,726	30,084
(e) 5,812	(e)23,770	(e) S 7,446	..	2,444	7,332												
(h) 375	(h)15,750	..	..	883	2,719												
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14,314
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18,161
..	..	..	..	..	..	125	25	S 150 G 910	..	151	..	..	..		..	151	38,237
..	..	..	..	..	..	..	1,491	3,303	..	786	..	..	..	..	..	786	26,988
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41,179
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21,114
11,870	(a-11) 75,786	(a-11) G 5,066 S 7,677	8	9,312	19,799	125	1,716	S 3,453 G 910	..	975	4,217	53,632	153	..	11,652	12,627	2,08,273
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6,080
..	73	200 S	..	16	32	..	..	..	..	..	..	..	..	..	..	..	24,564
..	(o) 181	(p) 692 S	..	42	99	..	388	..	..	73	..	242	..	..	45	118	20,640
..	2	..	..	6	(q)	..	..	..	..	..	..	..	..	..	..	..	19,149
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(r) 55,401
..	..	..	..	..	..	..	..	..	..	..	..	60	..	..	11	11	15,658
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45,611
..	..	..	..	..	..	..	..	..	..	..	(u) 438	(u) 1548	(u) 31	..	457	457	44,346
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40,677
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25,933
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17,594
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	838
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	83,200
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	256	892 S	..	64	131	..	388	..	..	73	438	1,850	31	..	513	586	(a—11) 3,93,611

(u) Cattle of Malayalis allowed free on the Tenmalais.
(v) At As. 8.
(w) At As. 4.
(x) At As. 2.
(y) Buffalo at As. 8, cow or bullock As. 4 and goat or sheep at As. 2.
(z) ,, at As. 12 ,, As. 6 ,, ,, at As. 3.
(a-1) Cow or bullock at As. 9.
(a-2) Plough bullock at Re. 1 each.
(a-3) Includes excess collection of Rs. 416–6–9.
(a-4) Includes penning licenses for 500 sheep and sale-proceeds of permit books sold to P.I.Os.
(a-5) At As. 8.
(a-6) 42 cows at As. 2.
(a-7) At As. 3.
(a-8) At 9 pies.
(a-9) Pen license fee for 437 cattle at Re. 1 each.
(a-10) Includes excess remittance, value of fodder grass and value recovered for cutting off a figure in a permit.
(a-11) Corrected in the Board's Office.

Return of Grazing in the

District.	Grazing on payment. Number									
	At enhanced or special rates.					At full rates.				
	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.					RS.					RS.
Reserved Forests.										
South Canara	..	..	..	..	..	5,264	36,986	..	..	8,909
Malabar, North	..	..	..	..	..	3,189	6,109	..	(*b*) 1	(*g*) 2,319
The Nilgiris	..	(*c*) 1,479 (*d*) 40	..	..	750	9,262	19,352 (*d*) 424	S 1,465	109	(*i*) 7,539
* Kollegal (*f*)	2,745	78,306	S 10,706	..	22,287	..	..	..	..	..
* Coimbatore, North (*f*) ..	6,582	90,526	S 32,312	..	(*h*) 29,996	..	..	..	..	..
Do. Central ..	..	..	..	..	..	146	21,189	S 13,622	..	(*j*) 5,876
Do. South ..	..	..	..	..	..	591	19,472	S 4,469	..	(*k*) 4,372
Madura (*f*)	305	63,213	S 48,754 G 45,561	419	44,935	..	..	..	..	..
Tinnevelly	..	..	..	..	..	590	26,066	S 35,793	..	(*l*) 8,524
Total ..	9,632	233,564	S 91,772 G 45,561	419	97,968	19,042	129,598	55,349	110	37,539
Reserved lands.										
The Nilgiris	..	..	..	..	..	..	..	..	..	..
Grand Total, Presidency ..	54,634	642,796	S 440,155 G 153,994	419	314,640	109,449	970,611	S 1,391,924 G 168,210	110	385,761

G = Goats. S = Sheep.

* Particulars for reserved forests and reserved lands not furnished separately in the district returns.

Full rates.—As. 6 per buffalo, As. 3 per cow, bullock or other animals and As. 1-6 per sheep.

(*a*) As. 3 per buffalo, cow or bullock.
(*b*) Rs. 6-12-5 for an elephant.
(*c*) As. 8 per cow or bullock.
(*d*) Calves, half rates.
(*e*) As. 3 per 100 per *diem*.

State forests during 1909–1910—*cont.*

of animals.						Grazing free. Number of animals.											Grand total of value at full rates.
At privileged rates.						By right under settlement.					During pleasure of Government or otherwise than under settlement.						
Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Buffaloes.	Cows and bullocks.	Goats and sheep.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
				RS.	RS.										RS.	RS.	RS.
(a) 4,270	(a) 2,356	..	..	(a)1,242	2,043	..	..	..	..	..	..	..	..	..	..	..	10,959
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,312
..	(e) 209	..	..	4	39	..	..	..	..	..	..	23	..	..	4	4	8,332
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22,287
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29,996
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5,876
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4,372
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44,935
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8,524
4,270	2,565	..	..	1,246	2,082	..	..	..	..	..	..	23	..	..	4	4	1,37,593
..	..	..	..	..	..	..	..	..	..	..	1,532	..	..	..	574	574	574
16,140	78,607	S 8,569 G 5,066	8	10,622	22,012	125	2,104	S3,453 G 910	..	1,048	6,187	55,505	184	..	12,743	13,791	746,131

(*f*) As. 8 per buffalo, As. 8 per goat, As. 4 per cow or bullock or other animals, and As. 2 per sheep.

(*g*) Excludes Rs. 29 paid in advance last year by permit-issuing officers.

(*h*) Includes Rs. 35, the sale-proceeds of fodder grass.

(*i*) Do. Rs. 240 do. do.

(*j*) Includes Rs. 309, the lease amounts of grazing areas and of fodder grass, and Rs. 262 paid in advance by permit-issuing officers for purchase of permits.

(*k*) Includes Rs. 81 paid by permit-issuing officers for purchase of permits.

(*l*) Includes Rs. 60, penning fees.

ABSTRACT of animals licensed to graze on payment.

Circle.	Buffaloes.	Bullocks and cows.	Sheep.	Goats.	Other animals.	Total.
1	2	3	4	5	6	7
Northern Circle ..	94,000	(a) 471,979	(a) 476,879	133,367	8	(a) 1,176,233
Central Circle ..	53,279	854,308	1,216,648	148,342	..	2,272,577
Southern Circle ..	32,944	365,727	147,121	45,561	529	591,882
Grand Total Presidency	180,223	1,692,014	1,840,648	327,270	537	4,040,692

(a) Corrected in the Board's office.

Annual Form No. 75.

Forest Department, Madras Presidency.

Artificial reproduction, 1909-1910.

District.	Area in acres.				Expenditure during the year.		Total expenditure from commencement.		Revenue during the year.	Total revenue from date of creation of plantation.
	On 1st July 1909.	Added during the year.	Excluded during the year.	Area on 30th June 1910.	Creation.	Upkeep.	Creation.	Upkeep.		
1	2	3	4	5	6	7	8	9	10	11
Northern Circle.										
A.—Regular Plantations.										
	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	348		..	348	..	738	33,900	7,725	98	11,365
Vizagapatam	78	..	..	78	..	5	..	5	197	1,575
Gódávari, Lower	776	57	2	831	2,976	2,609	38,757	13,363	10,226	46,661
Kistna	1,114	51	48	1,117	2,676	5,653	18,194	28,494	6,227	45,397
Kurnool, East (a)	223	18	202	39	7,244	1,226	25,822	16,297	..	..
Do. West	421	144	..	565	36,341	2,142	1,26,210	15,751	25	722
Bellary	246	100	..	346	560	22,552	5,898	39,260	..	..
Total	3,206	370	252	3,324	49,797	34,925	2,48,781	1,20,895	16,773	1,05,720
Central Circle.										
A.—Regular Plantations.										
Cuddapah, North	* ..	..	..	..	..	..	..	..	..	..
Do. East	1,500	..	4	1,496	..	338	Not known.		64	Not known.
Do. South	19	..	..	19	315	219	315	443	6	Do.
Nellore	5,255	10	..	5,265	13,013	..	1,03,699	..	55,685	3,52,014
Chingleput	(b) 289	17	..	306	1,494	236	1,899	3,204	466	8,085
Arcot, North	1,175	123	123	1,175	638	2,014	8,098	1,27,689	6,733	56,524
Do South	885	62	15	932	2,062	503	26,779	2,734	10,052	1,21,465
Salem, North	585	..	..	585	..	..	8,414	20,352	590	6,311
Do. South	617	..	..	617	..	36	34,952	8,530	753	8,714
Trichinopoly	..	..	..	..	..	..	..	..	..	..
Tanjore	549	10	..	559	..	1,422	Not known.		1,937	Not known.
Guntúr	(c) 1,670	454	288	1,836	11,317	1,721	31,751	5,441	4,687	11,743
Total	12,544	676	430	12,790	28,839	6,489	2,15,907	1,68,393	80,973	564,856
Southern Circle										
A.—Regular Plantations.										
South Canara	122	4	4	122	..	326	2,263	6,536	1,603	15,702
Malabar, North	870	..	..	870	..	826	15,164	16,382	..	..
Do. South	5,978	137	..	6,115	3,678	4,555	5,30,629	5,07,036	1,17,957	13,72,804
The Nilgiris	1,645	42	..	1,687	1,130	11,922	1,130	2,75,191	20,093	4,40,551
Coimbatore, Central	291 † + 86	72	..	449	116	..	258	137	..	..
Do. South	36	27	..	63	535	77	6,984	158	..	..
Madura	325	‡ 23	..	348	5,108	.	6,000	481	1,190	1,190
Tinnevelly	1,488	144	..	1,632	498	506	2,640	3,232	..	..
Total	10,841	449	4	11,286	11,065	18,212	5,65,068	8,09,153	1,40,843	18,30,247
Grand Total, Plantations, Presidency.	26,591	1,495	686	27,400	89,701	59,626	10,29,756	10,98,441	2,38,589	25,00,823
Northern Circle.										
B.—Taungya Plantations.										
Gódávari, Upper	125	..	..	125	47	..	1,826	586	..	934
Central Circle.										
B.—Taungya										
Arcot, North	1,436	..	..	1,436	..	752	..	1,959	..	..
Trichinopoly	595	..	..	595	..	..	..	..	1,544	..
Total	2,031	..	..	2,031	..	752	..	1,959	1,544	..

(a) These are as per revised return submitted to Board with Collector's No. R. Dis. 2/F.E., dated 8th January 1910.

(b) The difference between this and the last year's closing balance is due to the omission from the last year's district return of 5 acres planted with casuarina.

(c) The difference between the last year's closing balance and this year's opening balance, viz., 130 acres, is due to the said area having been re-planted and included in column 3.

* The closing balance of 55 acres has been omitted to be brought forward as the Collector has reported that there is no regular plantation and that it is not known under what circumstances the area, 55 acres, was shown in the previous year's return.

† Omitted from last year's return and added to opening balance by Collector.

‡ Five acres, extension of pine plantations in Madura, omitted from the district return.

Artificial reproduction, 1909–1910—*cont.*

District.	Area in acres. On 1st July 1909.	Area in acres. Added during the year.	Area in acres. Excluded during the year.	Area in acres. Area on 30th June 1910.	Expenditure during the year. Creation.	Expenditure during the year. Upkeep.	Total expenditure from commencement. Creation.	Total expenditure from commencement. Upkeep.	Revenue during the year.	Total revenue from date of creation of plantation.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.										
B.—Taungya										
	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
South Canara	..	181	..	181	46	..	46	..	..	..
Malabar, North	56	..	..	56	..	13	..	10,509	1,250	3,790
Tinnevelly	15	..	..	15	..	..	..	..	..	..
Total ..	71	181	..	252	46	13	46	10,509	1,250	3,790
Total, Taungya Plantations, Presidency.	2,227	181	..	2,408	93	765	1,872	13,054	2,794	4,724
NORTHERN CIRCLE.										
C.—Cultural Operations.										
Ganjém	..	20	..	20	69	..	69	..	..	..
Vizagapatam	..	..	..	..	13	5	182	9	..	..
Gódávari, Upper	(c) 825	4	..	829	976	183	2,044	183	145	145
Do. Lower	1,528	244	..	1,772	414	162	1,728	780	..	..
Kistna	1,052	440	100	1,392	225	182	1,761	1,359	8,568	11,739
Kurnool, East (a)	217	..	..	217	2,231	..	10,192	187	..	..
Do. West	323	307	..	630	206	..	420	..	..	..
Bellary	6,832	3,287	500	9,619	26,062	..	44,753	..	..	..
Anantapur	(b)47,010	4,596	.	51,606	3,950	..	16,971	..	..	274
Total ..	57,787	8,898	600	66,085	34,146	532	78,120	2,518	8,713	12,158
CENTRAL CIRCLE.										
C.—Cultural Operations.										
Cuddapah North	..	112	..	112	36	112	36	112	..	..
Do. East	82	50	44	88	46	163	132	..	..	..
Do. South	..	..	..	..	114	..	114	121	..	..
Nellore	305	140	..	445	298	..	1,605	..	..	..
Chingleput	6,224	1,206	..	7,430	660	532	1,720	3,032	..	..
Arcot, North	1,151	..	..	1,151	50	62	174	359	..	..
Do. South	1,102	192	..	1,294	134	..	414	487	..	..
Salem, North	..	..	..	..	470	4	4,025	81	..	15
Do. South	(d) 16	200	..	216	103	134	587	631	40	61
Trichinopoly	291	25	..	316	63	1,336	63	3,517	2,495	Not known.
Tanjore	1,256	32	..	1,288	65	..		Not known.		..
Guntúr	1	..	..	1	..	..	30	..	..	..
Total ..	10 428	1,957	44	12,341	2,039	2,343	8,900	8,340	2,535	76
SOUTHERN CIRCLE.										
C.—Cultural Operations.										
South Canara	2	..	..	2	..	83	199	144	..	..
Malabar, North	139	..	..	139	..	1,197	..	6,210	..	..
Do. South	162	25	..	187	266	246	1,875	633	..	..
The Nilgiris	488	5	..	493	162	1,864	162	28,935	..	..
* Coimbatore, North	† 5,648	5,187	..	10,835	..	..	..	.	..	..
Do. Central	94	13	..	107	14	..	544	89	..	37
Do. South	106	367	..	473	142	25	1,687	376	..	..
Madura	690	58	..	748	247	..	2,244	470	..	..
Tinnevelly	1,319	502	..	1,821	609	..	2,827	71	..	..
Total ..	8,648	6,157	..	14,805	1,440	3,415	9,538	36,928	..	37
Total, Cultural Operations, Presidency.	76,863	17,012	644	93,231	37,625	6,290	96,558	47,786	11,248	12,271
Grand Total, Regular Plantations, Taungya and Cultural Operations.	105,681	18,688	1,330	1,23,039	1,27,419	66,681	11,28,186	11,59,281	2,52,631	25,17,818

(a) These are as per revised return submitted to Board with Collector's No. R. Dis. 2/F.E., dated 8th January 1910.
(b) This is as per revised return of the Collector sent in reply to an objection that for a series of years expenditure was being shown and not the area corresponding to it.
(c) Correct figures as reported by the Collector.
(d) Difference due to revision of area for Mallapuram bungalow compound.
* Dibbling seeds in coupes done by subordinates free of cost.
† Omitted from last year's return and added to opening balance by Collector.

ANNUAL FORM No. 76.

Forest Department, Madras Presidency.

OUTTURN (in cubic feet solid) of Timber and Fuel and of Bamboos (in number) during the year 1909–1910, and Agency of Exploitation.

ANNUAL

Forest Department,

OUTTURN (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
NORTHERN CIRCLE.							
Ganjám.							
Reserved forests—							
Sâl	60,432	35	..	..	60,467	..	..
Miscellaneous	7,625	154	35,783	..	43,562	..	..
Total ..	* 68,057	189	35,783	..	104,029	203,570	6,951
Unreserved lands—							
Sâl	3,381	4,812	..	..	8,193	..	..
Miscellaneous	1,675	120,439	8,070	..	130,184	..	..
Total ..	5,056	125,251	8,070	..	138,377	68,574	40,647
Total, Ganjám ..	73,113	125,440	43,853	..	242,406	272,144	47,598
Vizagapatam.							
Reserved forests—							
Miscellaneous	6,924	1,870	340	..	9,134	209,415	8,350
Unreserved lands—							
Yegisi	1,047	..	..	..	1,047	..	..
Maddi	758	..	..	..	758	..	..
Miscellaneous	784	27,644	2,510	..	30,938	..	..
Total ..	2,589	27,644	2,510	..	32,743	..	60,822
Total, Vizagapatam ..	9,513	29,514	2,850	..	41,877	209,415	69,172
Upper Gódávari.							
Reserved forests—							
Teak	..	4,382	..	..	4,382	..	..
Maddi	479	..	..	..	479	..	..
Miscellaneous	4,645	..	..	..	4,645	..	..
Total ..	5,124	4,382	..	..	9,506	..	..
Unreserved lands—							
Teak	12,888	18,045	..	..	30,933	—	..
Yegisi	278	16,308	8	..	16,594	..	..
Maddi	411	34,334	1,357	..	36,102	..	..
Miscellaneous	8,686	33,305	9,939	..	51,930	..	..
Total ..	22,263	101,992	11,304	..	135,559	157,059	20,298
Total, Upper Gódávari ..	27,387	106,374	11,304	..	145,065	157,059	20,298
Lower Gódávari.							
Reserved forests—							
Teak	123	..	..	..	123	..	..
Yegisi	660	..	..	..	660	..	..
Maddi	66	..	..	..	66	..	..
Miscellaneous	10,928	..	..	..	10,928	..	..
Total ..	11,777	..	..	..	11,777	680,757	..
Unreserved lands—							
Teak	25	..	..	..	25	..	..
Yegisi	92	26,093	..	..	26,185	..	..
Maddi	15	18,065	..	..	18,080	..	..
Miscellaneous	4,361	214,384	1,180	..	219,925	..	..
Total ..	4,493	258,542	1,180	..	264,215	..	201,593
Total, Lower Gódávari ..	16,270	258,542	1,180	..	275,992	680,757	201,593

* Excludes 3,093 c. ft. of timber removed by departmental agency.

Form No. 76.

Madras Presidency.

(in number) during the year 1909–1910, and Agency of Exploitation.

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	210,521	314,550	† 895,823	2,344	58,317	..	956,484
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	109,221	247,598	..	15,118	1,120	..	16,238
..	..	319,742	562,148	895,823	17,462	59,437	..	972,722
..	..	217,765	226,899	871,519	444,700	11,280	..	1,327,499
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	60,822	93,565	..	7,710	..	..	7,710
..	..	278,587	320,464	871,519	452,410	11,280	..	1,335,209
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	9,506	13,244	651,100	..	..	664,344
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	177,357	312,916	2,500	86,300	1,350	..	90,150
..	..	177,357	322,422	15,744	737,400	1,350	..	754,494
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	680,757	692,534	10,424	1,231,600	..	..	1,242,024
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	201,593	465,808	5,650	7,924,520	..	..	7,930,170
..	..	882,350	1,158,342	16,074	9,156,120	..	..	9,172,194

† Excludes 2,000 bamboos removed by departmental agency.

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Kistna.							
Reserved forests—Miscellaneous	3,505	12,752	..	..	16,257	798,087	198,302
Unreserved lands—Miscellaneous	1,463	73,776	160	..	75,399	15,306	400,848
Total, Kistna ..	4,968	86,528	160	..	91,656	813,393	599,150
Kurnool, East.							
Reserved forests—							
Teak	2,163	..	..	..	2,163	..	..
Yegisi	3,113	..	..	..	3,113	..	..
Maddi	2,146	..	..	..	2,146	..	..
Miscellaneous	8,358	512	3,486	..	12,356	..	..
Total ..	15,780	512	3,486	..	19,778	596,428	13,362
Unreserved lands—Miscellaneous	..	71	480	..	551	..	..
Total, Kurnool, East ..	15,780	583	3,966	..	20,329	596,428	13,362
Kurnool, West.							
Reserved forests—							
Teak	10,248	..	..	..	10,248	..	..
Yegisi	21,519	..	..	..	21,519	..	.
Maddi	4,127	..	..	..	4,127	..	..
Miscellaneous	72,502	10,220	5,420	787	88,929	..	..
Total ..	108,396	10,220	5,420	787	124,823	1,151,182	..
Unreserved lands—Miscellaneous	..	11,024	..	..	11,024	..	134,334
Total, Kurnool, West ..	108,396	21,244	5,420	787	135,847	1,151,182	134,334
Bellary.							
Reserved forests—Miscellaneous	3,715	..	..	..	3,715	115,169	..
Reserved lands including leased forests—Teak	177	..	..	..	177	127,865	..
Unreserved lands—Miscellaneous	3,725	90,871	8,458	..	103,054	69,813	118,317
Total, Bellary ..	7,617	90,871	8,458	..	106,946	312,847	118,317
Anantapur.							
Reserved forests—Miscellaneous	588	513	..	..	1,101	15,000	3,000
Unreserved lands—Miscellaneous	18,000	39,000	406	..	57,406	21,360	54,000
Total, Anantapur ..	18,588	39,513	406	..	58,507	36,360	57,000

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	996,389	1,012,646	13,800	144,300	..	..	158,100
..	..	416,154	491,553	..	..	..	..	..
..	..	1,412,543	1,504,199	13,800	144,300	..	..	158,100
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	609,790	629,568	721,176	..	975	..	722,151
..	..	..	551	..	..	..	..	..
..	..	609,790	630,119	721,176	..	975	..	722,151
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	1,305,688	1,430,511	3,246,131	41	20,325	12,293	3,278,790
..	..	134,334	145,358	..	..	..	..	..
..	154,506	1,440,022	1,575,869	3,246,131	41	20,325	12,293	3,278,790
..	..	115,169	118,884	..	..	..	..	..
..	..	127,865	128,042	23,252	..	..	..	23,252
..	..	188,130	291,184	..	509	..	..	509
..	..	431,164	538,110	23,252	509	..	..	23,761
..	..	18,000	19,101	19,167	..	..	..	19,167
..	..	75,360	132,766	..	..	..	..	..
..	..	93,360	151,867	19,167	..	..	..	19,167

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
CENTRAL CIRCLE.	C. FT.	C. FT.	C. FT.		C. FT.	C. FT.	C. FT.
North Cuddapah.							
Reserved forests—Miscellaneous	20,846	20,360	2,956	..	44,162	693,496	334,165
East Cuddapah.							
Reserved forests—Miscellaneous	16,173	..	540	..	16,713	764,056	..
Unreserved lands—Miscellaneous	..	8,668	..	..	8,668	..	38,806
Total, East Cuddapah ..	16,173	8,668	540	.	25,381	764,056	38,806
South Cuddapah.							
Reserved forests—Miscellaneous	2,071	5,029	..	..	7,100	44,920	1,816
Unreserves—Miscellaneous	..	31,821	104	..	31,925	..	50,327
Total, South Cuddapah ..	2,071	36,850	104	..	39,025	44,920	52,143
Nellore.							
Reserved forests—Miscellaneous	6,204	5,630	..	..	11,834	720,263	381,150
Unreserved lands—Miscellaneous	..	83,740	3,154	..	86,894	..	31,989
Total, Nellore	6,204	89,370	3,154	..	98,728	720,263	413,139
Chingleput.							
Reserved forests—Miscellaneous	1,688	53	1,307	..	3,048	158,653	1,873
Unreserves—Miscellaneous	263	81,624	1,560	..	83,447	* 320	58,566
Total, Chingleput ..	1,951	81,677	2,867	..	86,495	158,973	60,439
North Arcot.							
Reserved forests—Red sanders	2,971	..	..	..	..	..	..
Sandalwood	2,230						
Miscellaneous	† 6,979						
Total ..	12,180	21,107	2,238	..	35,525	1,283,302	138,370
Unreserved lands—Miscellaneous	..	203,567	5,480	..	209,047	..	165,776
Total, North Arcot ..	12,180	224,674	7,718	..	244,572	1,283,302	304,146
South Arcot.							
Reserved forests—Sandalwood	4,049	..	..	..	..	..	..
Miscellaneous	458						
Total ..	4,507	4,184	..	..	8,691	815,787	128,653
Unreserved lands—Miscellaneous	..	45,952	3,134	.	49,086	..	166,193
Total, South Arcot ..	4,507	50,136	3,134	..	57,777	815,787	294,846
North Salem.							
Reserved forests—Sandalwood	1,369	..	..	..	..	..	..
Miscellaneous	7,964						
Total ..	9,333	..	..	..	9,333	345,978	612

* This excludes 260 casuarina trees for which cubic feet were not furnished by the Collector.
† Includes 3,234 cubic feet of agricultural implements.

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	1,027,661	1,071,823	48,920	199,564	8,900	..	257,384
..	..	764,056	780,769	320	942,670	1,900	..	944,890
..	..	38,806	47,474	..	..	..	..	..
..	..	802,862	828,243	320	942,670	1,900	..	944,890
..	..	46,736	53,836	70,160	35,700	..	..	105,860
..	..	50,327	82,252	..	..	7,200	..	7,200
..	..	97,063	136,088	70,160	35,700	7,200	..	113,060
20	..	1,101,433	1,113,267	4,020	..	..	..	4,020
..	..	31,989	118,883	..	8,280	..	..	8,280
20	..	1,133,422	1,232,150	4,020	8,280	..	..	12,300
..	..	160,526	163,574	..	..	40	..	40
..	..	58,886	142,332	..	9,000	120	..	9,120
..	..	219,412	305,907	..	9,000	160	..	9,160
..	..	..	..	..	..	..	..	..
..	..	1,421,672	1,457,197	78,098	4,437,780	6,560	..	4,522,438
..	..	165,776	374,823	..	..	..	..	..
..	..	1,587,448	1,832,020	78,098	4,437,780	6,560	..	4,522,438
..	..	..	..	..	..	..	..	..
400	..	944,840	953,531	2,028	2,115,680	..	..	2,117,708
247	..	166,440	215,526	..	563	..	..	563
647	..	1,111,280	1,169,057	2,028	2,116,243	..	..	2,118,271
..	..	..	..	..	..	..	..	..
..	..	346,590	355,923	110,682	5,983,418	..	..	6,094,100

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos.

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
CENTRAL CIRCLE—*cont.*							
North Salem—cont.							
Unreserves—							
Sandalwood	137	..	..	..	..	..	..
Miscellaneous	3,159						
Total ..	3,296	114,781	385	..	118,462	96,322	91,562
Total, North Salem ..	12,629	114,781	385	..	127,795	442,300	92,174
South Salem.							
Reserved forests—							
Sandalwood	45	..	..	..	..	..	..
Miscellaneous	4,318						
Total ..	4,363	..	..	..	4,363	181,592	43,860
Unreserves—							
Sandalwood	226	..	..	..	..	..	..
Miscellaneous	735						
Total ..	961	122,797	7,552	..	131,310	9,043	160,135
Total, South Salem ..	5,324	122,797	7,552	..	135,673	190,635	203,995
Trichinopoly.							
Reserved forests—							
Miscellaneous	..	..	520	..	520	322,353	764,520
Unreserves—							
Miscellaneous	..	223,401	3,099	..	226,500	255,707	412,344
Total, Trichinopoly ..	..	223,401	3,619	..	227,020	578,060	1,176,864
Tanjore.							
Reserved forests—							
Miscellaneous	..	..	..	..	..	66,328	6,525
Unreserves—							
Miscellaneous	..	..	..	..	..	9,712	122,125
Total, Tanjore ..	..	..	..	..	..	76,040	128,650
Guntúr.							
Reserved forests—							
Miscellaneous	146,108	450	460	..	147,018	934,684	..
Unreserved lands—							
Miscellaneous	231	297,523	25,860	..	323,614	35,077	7,416
Total, Guntúr ..	146,339	297,973	26,320	..	470,632	969,761	7,416
SOUTHERN CIRCLE.							
South Canara.							
Reserved forests—							
Teak	41	..	..	..	41	..	..
Rosewood	22	..	..	..	22	..	..
Pterocarpus Marsupium ..	174	..	..	..	174	..	..
Xylia dolabriformis	1,433	..	..	..	1,433	..	..
Hopea parviflora	4	..	..	..	4	..	..
Miscellaneous	7,051	59,778	..	..	66,829	..	..
Total ..	8,725	59,778	..	..	68,503	207,605	301,497
Unreserved lands—							
Teak	..	300	75	1,550	1,925	..	..
Sandalwood	..	46	..	..	46	..	..
Rosewood	..	200	..	350	550	..	..
Pterocarpus Marsupium ..	..	25	..	375	400	..	..
Xylia dolabriformis	..	25	225	1,975	2,225	..	..
Hopea parviflora	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	..	18,764	2,409	24,200	45,373	..	..
Total ..	..	21,585	6,159	92,325	120,019	..	430,717
Total, South Canara ..	8,725	81,313	6,159	92,325	188,522	207,605	732,214

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
		C. FT.	C. FT.	NO.	NO.	NO.		NO.
..	..	..	..	..	..	..	..	..
..	..	187,884	306,346	11,461	250,720	3,250	..	265,431
..	..	534,474	662,269	122,143	6,234,138	3,250	..	6,359,531
..	..	..	..	..	..	..	..	..
..	..	225,452	229,815	..	3,207,480	..	..	3,207,480
..	..	..	..	..	..	..	..	..
..	..	169,178	300,488	..	172,220	..	..	172,220
..	..	394,630	530,303	..	3,379,700	..	..	3,379,700
..	..	1,086,873	1,087,393	95,441	50,970	..	..	146,411
..	..	668,051	894,551	..	479	..	..	479
..	..	1,754,924	1,981,944	95,441	51,449	..	..	146,890
..	..	72,853	72,853	..	..	..	..	..
..	..	131,837	131,837	..	3,524	..	..	3,524
..	..	204,690	204,690	..	3,524	..	..	3,524
..	..	934,684	1,081,702	..	..	..	..	..
..	..	42,493	366,107	..	..	..	..	..
..	..	977,177	1,447,809	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	509,102	577,605	8,604	35,056	..	..	43,660
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	430,717	550,736	..	40,475	2,000	..	42,475
..	..	939,819	1,128,341	8,604	75,531	2,000	..	86,135

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
SOUTHERN CIRCLE—*cont.*							
Malabar, North.							
Reserved forests—							
Teak	9,719	12,623	..	..	22,342	..	..
Rosewood	559	4,757	..	..	5,316	..	..
Pterocarpus Marsupium ..	2,145	5,355	..	..	7,500	..	..
Lagerstroemia microcarpa ..	281	2,179	..	..	2,460	..	..
Terminalia tomentosa	1,695	7,690	..	..	9,385	..	..
Miscellaneous	1,182	356	..	..	1,538	..	..
Total ..	15,581	32,960	..	..	48,541	12,344	360
Unreserved lands—							
Teak	..	..	142	..	142	..	..
Total, Malabar, North ..	15,581	32,960	142	..	48,683	12,344	360
Malabar, South.							
Reserved forests—							
Teak	11,015	3,250	..	..	14,265	..	..
Rosewood	1,439	104	..	..	1,543	..	..
Pterocarpus Marsupium ..	427	..	..	..	427	..	..
Xylia dolabriformis	721	2,925	..	..	3,646	..	..
Terminalia tomentosa	7,586	1,950	..	..	9,536	..	..
Miscellaneous	6,363	28,405	10	..	34,778	..	..
Total ..	27,551	36,634	10	..	64,195	..	220
Reserved lands—							
Teak	28,330	..	..	..	28,330	..	..
Xylia dolabriformis	287	..	..	..	287	..	..
Miscellaneous	1,309	..	..	..	1,309	..	..
Total ..	29,926	..	..	..	29,926	1,248	..
Unreserved lands—							
Teak	20	..	..	..	20	..	..
Xylia dolabriformis	4	..	..	..	4	..	..
Miscellaneous	44	20	..	..	64	..	..
Total ..	68	20	..	..	88	300	..
Total, Malabar, South ..	57,545	36,654	10	..	94,209	1,548	220
The Nilgiris.							
Reserved forests—							
Teak	20,308	193	..	..	20,501	..	..
Rosewood	258	80	..	..	338	..	..
Pterocarpus Marsupium ..	2,237	728	..	..	2,965	..	..
Lagerstroemia microcarpa ..	245	..	..	..	245	..	..
Sandalwood	348	..	..	..	348	..	..
Miscellaneous	1,153	589	20	310	2,072	..	..
Total, The Nilgiris ..	24,549	1,590	20	310	26,469	170,511	13,556
Kollegal.							
Reserved forests—							
Teak	96	..	..	..	96	..	..
Pterocarpus Marsupium ..	68	..	..	..	68	..	..
Rosewood	236	..	..	..	236	..	..
Sandalwood	2,205	..	..	..	2,205	..	..
Miscellaneous	2,068	307	..	..	2,375	..	..
Total ..	4,673	307	..	..	4,980	214,565	1,637
Reserved lands—							
Sandalwood	232	..	..	..	232	..	..
Miscellaneous	..	343	..	..	343	..	..
Total ..	232	343	..	..	575	..	131
Total, Kollegal ..	4,905	650	..	..	5,555	214,565	1,768
Coimbatore, North.							
Reserved forests—							
Sandalwood	4,001	..	..	..	4,001	..	..
Miscellaneous	5,247	105	60	..	5,412	..	..
Total ..	9,248	105	60	..	9,413	445,582	8,403

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	12,704	61,245	3,475	15,651	..	..	19,126
..	..	..	142	..	..	..	..	..
..	..	12,704	61,387	3,475	15,651	..	..	19,126
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	220	64,415	310	17,500	..	..	17,810
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,248	31,174	31,052	7,300	..	..	38,352
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	300	388	..	..	..	..	..
..	..	1,768	95,977	31,362	24,800	..	..	56,162
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,640	106	185,813	212,282	..	182,945	..	2,775	185,720
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	216,202	221,182	54,467	107,683	..	..	162,150
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	131	706	25	206	..	..	231
..	..	216,333	221,888	54,492	107,889	..	..	162,381
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	453,985	463,398	1,925	3,244,385	400	..	3,246,710

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE—*cont.*	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
Coimbatore, North—cont.							
Reserved lands—							
Miscellaneous	529	..	..	..	529	103,650	335
Unreserved lands—							
Miscellaneous	..	..	1,140	..	1,140	..	..
Total, Coimbatore, North ..	9,777	105	1,200	..	11,082	549,232	8,738
Coimbatore, Central.							
Reserved forests—							
Teak	2,388	..	..	..	2,388	..	..
Sandalwood	12	..	..	..	12	..	..
Terminalia Tomentosa	7	..	..	..	7	..	..
Miscellaneous	5,853	6,792	..	..	12,645	..	..
Total ..	8,260	6,792	..	..	15,052	353,466	490,996
Reserved lands—							
Miscellaneous	13,031	..	..	..	13,031	..	..
Unreserved lands—							
Miscellaneous	..	75,551	1,488	..	77,039	..	190,805
Total, Coimbatore, Central ..	21,291	82,343	1,488	..	105,122	353,466	681,801
Coimbatore, South.							
Reserved forests—							
Teak	51,100	..	..	..	51,100	..	..
Xylia dolabriformis	73	..	..	..	73	..	..
Pterocarpus Marsupium ..	1,905	..	..	..	1,905	..	..
Rosewood	2,522	..	..	..	2,522	..	..
Lagerstrœmia Microcarpa ..	2,948	..	..	..	2,948	..	..
Terminalia Tomentosa	183,245	..	..	..	183,245	..	..
Miscellaneous	18,892	..	..	..	18,892	..	..
Total, Coimbatore, South ..	260,685	..	..	..	260,685	267,298	144
Madura.							
Reserved forests—							
Teak	69	..	..	..	69	..	..
Pterocarpus Marsupium ..	152	..	..	..	152	..	..
Rosewood	28	..	..	..	28	..	..
Miscellaneous	2,554	75,547	40	..	78,141	..	..
Total ..	2,803	75,547	40	..	78,390	1,013,439	325,430
Unreserved lands—							
Miscellaneous	..	86,980	3,350	..	90,330	193,191	496,748
Total, Madura ..	2,803	162,527	3,390	..	168,720	1,206,630	822,178
Tinnevelly.							
Reserved forests—							
Miscellaneous	1,447	28,162	..	..	29,609	252	581,640
Unreserved lands—							
Miscellaneous	..	30,673	1,614	..	32,287	3,053	154,966
Total, Tinnevelly ..	1,447	58,835	1,614	..	61,896	3,305	736,606
NORTHERN CIRCLE.							
Reserved forests—							
Sal	60,432	35	..	..	60,467	..	..
Teak	12,534	4,382	..	..	16,916	..	..
Yegisi	25,292	..	..	..	25,292	..	..
Maddi	6,818	..	..	..	6,818	..	..
Miscellaneous	118,790	26,021	45,029	787	190,627	..	..
Total ..	223,866	30,438	45,029	787	300,120	3,769,608	229,965

ABS

(in number) during the year 1909-1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	103,985	104,514	..	..	..	..	..
..	..	..	1,140	..	..	..	..	..
..	..	557,970	569,052	1,925	3,244,385	400	..	3,246,710
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	844,462	859,514	684	879,095	..	..	879,779
..	..	..	13,031	..	..	..	..	..
..	..	190,805	267,844	..	..	..	..	..
..	..	1,035,267	1,140,389	684	879,095	..	..	879,779
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	267,442	528,127	5,268	301,662	..	..	306,930
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,338,869	1,417,259	..	146,266	..	..	146,266
1,325	..	691,264	781,594	..	..	..	..	..
1,325	..	2,030,133	2,198,853	..	146,266	..	..	146,266
..	..	581,892	611,501	..	* 4,415	..	..	4,415
680	..	158,699	190,986	..	82	..	..	82
680	..	740,591	802,487	..	4,497	..	..	4,497
TRACT.								
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..								
..	154,506	4,154,079	4,454,199	5,791,284	2,474,085	90,897	12,293	8,368,559

* Excludes 41 tons of Ethacally.

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

ABS

District.	Timber. Government.	Timber. Purchasers.	Timber. Free-grantees.	Timber. Right-holders.	Timber. Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
NORTHERN CIRCLE—*cont.*							
Reserved lands including leased forests—							
Teak	177	..	..	..	177	127,865	..
Unreserved lands—							
Sal	3,381	4,812	..	..	8,193	..	..
Teak	12,913	18,045	..	..	30,958	..	..
Yegisi	1,417	42,401	8	..	43,826	..	..
Maddi	1,184	52,399	1,357	..	54,940	..	..
Miscellaneous	38,694	610,514	31,203	..	680,411	..	..
Total ..	57,589	728,171	32,568	..	818,328	332,112	1,030,859
Reserved forests, Reserved lands and Unreserved lands—							
Sal (*Shorea robusta*)	63,813	4,847	..	..	68,660	..	..
Teak (*Tectona grandis*) ..	25,624	22,427	..	..	48,051	..	..
Yegisi (*Pterocarpus marsupium*)	26,709	42,401	8	..	69,118	..	..
Maddi (*Terminalia tomentosa*).	8,002	52,399	1,357	..	61,758	..	..
Miscellaneous	157,484	636,535	76,232	787	871,038	..	..
Grand Total ..	281,632	758,609	77,597	787	1,118,625	4,229,585	1,260,824
CENTRAL CIRCLE.							
Reserved forests—							
Red sanders	2,971						
Sandalwood	7,693	..	..	..	..	..	..
Miscellaneous	212,809						
Total ..	223,473	56,813	8,021	..	288,307	6,331,412	1,801,544
Unreserves—							
Sandalwood	363	..	..	..	..	..	..
Miscellaneous	4,388						
Total ..	4,751	1,213,874	50,328	..	1,268,953	406,181	1,305,239
Grand Total for the Circle—							
Red sanders	2,971						
Sandalwood	8,056	..	..	..	..	..	..
Miscellaneous	217,197						
Total ..	228,224	1,270,687	58,349	..	1,557,260	6,737,593	3,106,783
SOUTHERN CIRCLE.							
Reserved forests—							
Teak	94,736	16,066	..	..	110,802	..	..
Pterocarpus Marsupium ..	7,108	6,083	..	..	13,191	..	..
Rosewood	5,064	4,941	..	..	10,005	..	..
Sandalwood	6,566	..	..	..	6,566	..	..
Lagerstrœmia microcarpa ..	3,474	2,179	..	..	5,653	..	..
Xylia dolabriformis	2,227	2,925	..	..	5,152	..	..
Hopea parviflora	4	.	..	..	4	..	..
Terminalia tomentosa	192,533	9,640	..	..	202,173	..	..
Miscellaneous	51,810	200,041	130	310	252,291	..	..
Total ..	363,522	241,875	130	310	605,837	2,685,062	1,723,883
Reserved lands—							
Teak	28,330	..	..	..	28,330	..	..
Xylia dolabriformis	287	..	..	..	287	..	..
Sandalwood	232	..	..	..	232	..	..
Miscellaneous	14,869	343	..	..	15,212	..	..
Total ..	43,718	343	..	..	44,061	104,898	466

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
TRACT—*cont.*								
..	..	127,865	128,042	23,252	..	..	..	23,252
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	1,362,971	2,181,299	8,150	8,034,157	2,470	..	8,044,777
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	154,506	5,644,915	6,763,540	5,822,686	10,508,242	93,367	12,293	16,436,588
..	..	..	..	..	..	..	..	..
420	..	8,133,376	8,421,683	409,669	16,973,262	17,400	..	17,400,331
..	..	..	..	..	..	..	..	..
247	..	1,711,667	2,980,620	11,461	444,786	10,570	..	466,817
..	..	..	..	..	..	..	..	..
667	..	9,845,043	11,402,303	421,130	17,418,048	27,970	..	17,867,148
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
1,640	106	4,410,691	5,016,528	74,733	4,934,658	400	2,775	5,012,566
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	105,364	149,425	31,077	7,506	..	..	38,583

Outturn (in cubic feet solid) of Timber and Fuel and of Bamboos

District.	Timber.						
	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.	Government.	Purchasers.
1	2	3	4	5	6	7	8
							ABS
	C. FT.	.. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.
SOUTHERN CIRCLE—*cont.*							
Unreserved lands—							
Teak	20	300	217	1,550	2,087	..	..
Sandalwood	..	46	..	..	46	..	..
Rosewood	..	200	..	350	550	..	..
Pterocarpus Marsupium ..	..	25	..	375	400	..	..
Xylia dolabriformis	4	25	225	1,975	2,229	..	..
Hopea parviflora	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	44	211,988	10,001	24,200	246,233	..	..
Total ..	68	214,759	13,893	92,325	321,045	196,544	1,273,236
Reserved forests, reserved lands and unreserved lands—							
Teak	123,086	16,266	217	1,550	141,219	..	..
Pterocarpus Marsupium ..	7,108	6,108	..	375	13,591	..	..
Rosewood	5,064	5,141	..	350	10,555	..	..
Sandalwood	6,798	46	..	..	6,844	..	..
Lagerstrœmia microcarpa ..	3,474	2,179	..	..	5,653	..	..
Xylia dolabriformis	2,518	2,950	225	1,975	7,668	..	..
Hopea parviflora	4	2,175	3,450	63,875	69,504	..	..
Terminalia tomentosa ..	192,533	9,640	..	..	202,173	..	..
Miscellaneous	66,723	412,372	10,131	24,510	513,736	..	..
Grand Total ..	407,308	456,977	14,023	92,635	970,943	2,986,504	2,997,585
							PRESIDENCY
Reserved forests—							
Sal	60,432	35	..	..	60,467	..	..
Teak	107,270	20,448	..	..	127,718	..	..
Redsanders	35,371	6,083	..	..	41,454	..	..
Venteak	3,474	2,179	..	..	5,653	..	..
Sandalwood	14,259		..	..	14,259	..	..
Maddi	199,351	9,640	..	..	208,991	..	..
Ironwood	2,227	2,925	..	..	5,152	..	..
Rosewood	5,064	4,941	..	..	10,005	..	..
Irumbogum	4	..	..	..	4	.	..
Miscellaneous	383,409	226,062 * 56,813	45,159 * 8,021	1,097 ..	655,727 64,834	..	..
Total, Reserved forests ..	810,861	329,126	53,180	1,097	1,194,264	12,786,082	3,755,392
Reserved lands—							
Teak	28,507	..	..	..	28,507	..	..
Sandalwood	232	..	..	..	232	..	..
Ironwood	287	..	..	..	287	..	..
Miscellaneous	14,869	343	..	..	15,212	..	..
Total, Reserved lands ..	43,895	343	..	..	44,238	232,763	466
Unreserved lands—							
Sal	3,381	4,812	..	..	8,193	..	..
Teak	12,933	18,345	217	1,550	33,045	..	..
Maddi	1,184	52,399	1,357	..	54,940	..	..
Redsanders	1,417	42,426	8	375	44,226	..	..
Sandalwood	363	46	..	..	409	..	..
Rosewood	..	200	..	350	550	..	..
Ironwood	4	25	225	1,975	2,229	..	..
Irumbogum	..	2,175	3,450	63,875	69,500	..	..
Miscellaneous	43,126	822,502 *1,213,874	41,204 * 50,328	24,200 ..	931,032 1,264,202	..	..
Total, Unreserved lands ..	62,408	2,156,804	96,789	92,325	2,408,326	934,837	3,609,334
Reserved forests, Reserved lands and Unreserved lands—							
Sal	63,813	4,847	..	..	68,660	..	..
Teak	148,710	38,793	217	1,550	189,270	..	..
Redsanders	36,788	48,509	8	375	85,680	..	..
Venteak	3,474	2,179	..	..	5,653	..	..
Sandalwood	14,854	46	..	..	14,900	..	..
Maddi	200,535	62,039	1,357	.	263,931	..	..
Ironwood	2,518	2,950	225	1,975	7,668	..	..
Rosewood	5,064	5,141	..	350	10,555	..	..
Irumbogum	4	2,175	3,450	63,875	69,504	..	..
Miscellaneous . ..	441,404	2,319,594	144,712	25,297	2,931,007	..	..
Grand Total, Presidency, Reserved forests, Reserved lands and Unreserved lands.	917,164	2,486,273	149,969	93,422	3,646,828	13,953,682	7,365,192

* These figures are entered in columns 3 and 4 of the Central Circle statement and are not classified.

(in number) during the year 1909–1910, and Agency of Exploitation—*cont.*

Fuel.			Total.	Bamboos.				
Free-grantees.	Right-holders.	Total.	Outturn.	Government.	Purchasers.	Free-grantees.	Right-holders.	Total.
9	10	11	12	13	14	15	16	17
TRACT—*cont.*								
C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	NO.	NO.	NO.
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,005	..	1,471,785	1,792,830	..	40,557	2,000	..	42,557
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
3,645	106	5,987,840	6,958,783	105,810	4,982,721	2,400	2,775	5,093,706
ABSTRACT.								
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,060	154,612	16,698,146	17,892,410	6,275,686	24,382,005	108,697	15,068	30,781,456
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	233,229	277,467	54,329	7,506	..	..	61,835
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2,252	..	4,546,423	6,954,749	19,611	8,519,500	15,040	..	8,554,151
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
4,312	154,612	21,477,798	25,124,626	6,349,626	32,909,011	123,737	15,068	39,397,442

ANNUAL FORM No. 77.

Forest Department, Madras Presidency.

OUTTURN of Minor Produce during the year 1909–1910.

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grants.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
		MDS.	RS.	RS.	RS.	RS.	RS.
Northern Circle.	Grazing and fodder grass ..	92,163	2,090	2,08,168	86	904	2,11,248
	Grass (thatch, korai, tharbi, etc.).	8,177	690	534	246	..	1,470
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	65	16	51,349	..	..	51,365
	Horns, honey, wax, resin, gum, skins, etc.	..	..	1,234	..	..	1,234
	Tangedu, vembadam, etc., barks and fibres.	1,772	1	1,39,604	..	..	1,39,605
	Plumbago, stone, gravel, earth, etc.	..	..	3,981	..	..	3,981
	Leaves for platters	..	..	329	..	..	329
	Manure leaves	..	..	360	..	..	360
	Date and palmyra leaves, stalks, etc.	..	..	1,134	17	..	1,151
	Miscellaneous (including tree-owner's fees).	297,206	10,740	1,21,871	..	23,570	1,56,181
	Total ..	399,383	13,537	5,28,564	349	24,474	5,66,924
Central Circle.	Grazing and fodder grass including hay.	22,894	3,001	4,24,688	45	541	4,28,275
	Grass (thatch and korai, etc.) ..	2,554	29	700	59	200	988
	Tamarind, soapnuts, gallnuts ..	6,679	4,069	19,683	..	..	23,752
	Horns, honey, wax, gum, etc.	461	1,851	3,847	..	..	5,698
	Tangedu, vembadam, etc., barks and fibres.	37	200	66,929	..	..	67,129
	Mica stone, gravel, earth, etc...	..	..	45,296	..	..	45,296
	Lac	..	..	60	..	..	60
	Manure, leaves, thorns, etc. ..	..	..	42,674	1	..	42,675
	Date, palmyra leaves, etc. ..	3,810	56	8,006	796	..	8,858
	Miscellaneous including tree-tapping and tree-owners' fees.	49,680	9,313	1,83,878	..	..	1,93,191
	Total ..	86,115	18,519	7,95,761	901	741	8,15,922
Southern Circle.	*Reserved forests, reserved and unreserved lands.*	QRS.					
	Grass and grazing	15,923	3,147	1,36,762	4	..	..
	Grass (thatch, korai, etc.) ..	..	..	12,238	34	31	..
	Dammer, turmeric, pepper, cardamoms, etc.	..	..	8,588	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	15,420	13,446	2,305	..	..	..
	Horns, honey, wax, resin, gum, skin, etc.	548	6,912	2,107	..	..	..
	Avaram, vembadam, etc., barks and fibres.	..	..	2,824	..	..	..
	Stones, gravel and earth ..	..	..	10,798	782	..	..
	Manure leaves, thorns, etc. ..	..	..	830	..	..	..
	Date and palmyra leaves ..	..	..	831	..	..	..
	Miscellaneous	1,385	1,954	54,706	..	471	..
	Total ..	33,276	25,459	2,31,989	820	502	2,58,770
	Reserved lands.						
	Grazing	..	..	..	..	574	..
	Grass (thatch, korai, etc.) ..	..	..	26	..	..	..
	Avaram, vembadam, etc., barks and fibres.	..	..	1,073	..	..	..
	Stones, gravel and earth ..	..	..	170	..	..	..
	Manure leaves, thorns, etc. ..	..	..	16	..	..	..
	Date and palmyra leaves ..	..	..	240	..	..	..
	Miscellaneous	..	..	4,388	..	..	..
	Total ..	..	..	5,913	..	574	6,487

Outturn of Minor Forest Produce during the year 1909-1910—*cont.*

Circle.	Description of produce.	Produce removed or utilized.					
		By Government Agency.		By purchasers.	By free grants.	By right-holders.	Total.
		Quantity.	Value.	Value.	Value.	Value.	Value.
1	2	3	4	5	6	7	8
	Unreserved lands.	QRS.	RS.	RS.	RS.	RS.	RS.
Southern Circle—*cont.*	Grass (thatch, korai, etc.)	..	..	3,894	..	..	..
	Catechu	1,397	11,848	..	..	..	..
	Tamarind, soapnuts, gallnuts, nux-vomica, sheakoy, etc.	..	..	13,057	..	..	..
	Horns, honey, wax, resin, gum, skin, etc.	34	..	403	..	..	..
	Avaram, vambadam, etc., barks and fibres.	..	..	69	..	..	..
	Stone, gravel and earth ..	..	..	7,179	..	..	..
	Date and palmyra leaves ..	..	..	13	..	..	..
	Miscellaneous	..	..	8,072	..	5	..
	Total ..	1,431	11,848	32,687	..	5	44,540
	Grand tota ..	34,707	37,307	2,70,589	820	1,081	3,09,797
	Grand Total, Presidency	485,498 34,707 qrs.	69,363	15,94,914	2,070	26,296	16,92,643

Annual Form No. 78.

Forest Department, Madras Presidency.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910.

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
TIMBER (cubic feet).					
Northern Circle.					
Ganjám (e)	8,599	73,113	81,712	32,886	48,826
Vizagapatam	675	9,513	10,188	8,432	1,756
Gódávari, Upper	19,034	27,387	46,421	25,056	21,365
Do. Lower	700	16,270	16,970	14,412	2,558
Kistna	624	4,968	5,592	4,332	1,260
Kurnool, East	27,662	15,780	43,442	10,176	33,266
Do. West	34,581	108,396	142,977	116,230	26,747
Bellary	2,096	7,617	9,713	3,849	5,864
Anantapur	2,196	18,588	20,784	14,531	6,253
Total	96,167	281,632	377,799	229,904	147,895
Central Circle.					
Cuddapah, North	2,844	20,846	23,690	20,104	3,586
Do. East	3,318	16,173	19,491	14,984	4,507
Do. South	* 1,226	2,071	3,297	390	2,907
Nellore	6,559	6,204	12,763	(a) 8,349 (b) 3,639 (c) 3	772
Chingleput	911	1,951	2,862	2,598	264
Arcot, North	3,061	12,180	15,241	10,975 (b) 206 (c) 212	3,848
Do. South	4,201	4,507	8,708	4,003 (b) 604 (c) 193	3,908
Salem, North	4,399	12,629	17,028	12,116	4,912
Do. South	1,295	5,324	6,619	4,895	1,724
Trichinopoly	638	..	638	638	..
Tanjore	..	..	..	..	..
Guntúr	13,401	146,339	159,740	156,094	3,646
Total	41,853	228,224	270,077	240,003	30,074
Southern Circle.					
South Canara	36,127	8,725	44,852	14,107 (b) 677 (c) 5,656	24,412
Malabar, North	104,513	15,581	120,094	61,981 (b) 1,730 (c) 827	55,556
Do. South	136,630	57,545	194,175	116,773 (b) 578 (c) 6,635	70,189
The Nilgiris	36,236	24,549	60,785	40,141 (c) 20	20,624
Kollegal	1,461 (d) + 1	4,905	6,367	3,376	2,991
Coimbatore, North	4,548 (d) 4,306	9,777	18,631	14,282	4,349
Do. Central	2	21,291	21,293	6,797	14,496
Do. South	68,991	260 685	329,676	155,777	173,899
Madura	1,440	2,803	4,243	3,270	973
Tinnevelly	82	1,447	1,529	1,529	..
Total	394,337	407,308	801,645	434,156	367,489
Grand Total, Presidency	532,357	917,164	1,449,521	904,063	545,458

* Revised figure furnished by the Collector.

(a) Sold locally. (b) Used departmentally. (c) Written off.

(d) Added to openining balance by the Collector, sandalwood remaining with Pierce Leslie & Co. was wrongly excluded from the last year's return.

(e) Excludes 3,093 c. ft. of timber cut by Government agency and disposed of during the year.

Account of timber and other produce cut or collected by Government Agency and brought to depots sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
		FUEL (CUBIC FEET).			
Northern Circle.					
Ganjám	27,909	272,144	300,053	279,466	20,587
Vizagapatam	(*a*) 202,149	209,415	411,564	327,880	83,684
Gódávari, Upper	10,003	157,059	167,062	150,295	16,767
Do. Lower	91,308	680,757	772,065	557,085	214,980
Kistna	80,582	813,393	893,975	731,274	162,701
Kurnool, East	370,572	596,428	967,000	784,760	182,240
Do. West	220,765	1,151,182	1,371 947	866,508	505,439
Bellary	112,693	312,847	425,540	269,898	155,642
Anantapur	273,535	36,360	309,895	106,945	202,950
Total ..	1,389,516	4,229,585	5,619,101	4,074,111	1,544,990
Central Circle.					
Cuddapah, North	116,106	693,496	809,602	502,649	306,953
Do. East	318,203	764,056	1,082,259	834,124	248,135
Do. South	28,045	44,920	72,965	38,925 (*d*) 840 (*h*) 9,120	24,080
Nellore	137,027	720,263	857,290	(*b*) 304,109 (*e*) 1,678 (*d*) 21,099 (*g*) 332,696	197,708
Chingleput	46,354	158,973	205,327	176,856	28,471
Arcot, North	89,994	1,283,302	1,373,296	1,164,472 (*c*) 128 (*d*) 6,453	202,243
Do. South	84,661	815,787	900,448	776,561 (*c*) 3,362	120,525
Salem, North	91,990	442,300	534,290	438,457	95,833
Do. South	34,230	190,635	224,865	208,503	16,362
Trichinopoly	129,416	578,060	707,476	521,528	185,948
Tanjore	37,737	76,040	113,777	72,081	41,696
Guntúr	561,695	969,761	1,531,456	959,117	572,339
Madras depots	(*e*) 42,027 (*f*) 55,451	282,195 478,096	324,222 533,547	266,422 510,361	57,800 22,686
Total ..	1,772,936	6,737,593 (*e*) 282,195 (*f*) 478,096	9,270,820	7,150,041	2,120,779
Southern Circle.					
South Canara	456,008	207,605	663,613	397,797 (*b*) 324 (*d*) 14,976	250,516
Malabar, North	5,400	12,344	17,744	8,600 (*d*) 4,104	5,040
Do. South	22	1,548	1,570	1,165	405
The Nilgiris	364,492	170,511	535,003	267,096	267,907
Kollegal	134,903	214,565	349,468	216,660	132,808
Coimbatore, North	117,613	549,232	666,845	378,301	288,544
Do. Central	28,149	353,466	381,615	266,681	114,934
Do. South	76,960	267,298	344,258	267,874	76,384
Madura	25,452	1,206,630	1,232,082	1,227,307	4,775
Tinnevelly	1,568	3,305	4,873	4,836	37
Total ..	1,210,567	2,986,504	4,197,071	3,055,721	1,141,350
Grand Total, Presidency ..	4,373,019	14,713,973	19,086,992	14,279,873	4,807,119

(*a*) As per revised figures reported by Collectors and in the case of minor produce to conversion from maunds of 25 lbs. into maunds 28 lbs. also.
(*b*) Sold locally.
(*e*) Used departmentally.
(*d*) Written off.
(*c*) Produce received from Kurnool East.
(*f*) Produce received in Madras depots.
(*g*) Supplied to Madras depots.
(*h*) Represents deficit.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance on hand at close of the year in forest and sale depots.
1	2	3	4	5	6
		BAMBOOS (NUMBER).			
Northern Circle.					
Ganjám	7,491	895,823	903,314	891,693	11,621
Vizagapatam	15,165	871,519	886,684	884,656	2,028
Gódávari, Upper	40,054	15,744	55,798	53,160	2,638
Do. Lower	178,952	16,074	195,026	144,130	(i) 50,896
Kistna	15,275	13,800	29,075	29,075	..
Kurnool, East	176,226	721,176	897,402	826,811	70,591
Do. West	34,272	3,246,131	3,280,403	3,263,763	16,640
Bellary	162	23,252	23,414	23,414	..
Anantapur	26,919	19,167	46,086	35,822	10,264
Total	494,516	5,822,686	6,317,202	6,152,524	164,678
Central Circle.					
North Cuddapah	22,827	48,920	71,747	52,276	19,471
East do.	..	320	320	320	..
South do.	27,980	70,160	98,140	61,166	36,974
Nellore	15,000	4,020	19,020	(a) 18,000 (b) 20	1,000
Chingleput	..	..	..	..	..
Arcot, North	17,950	78,098	96,048	(a) 780 (b) 8 (f) 95,040	220
Do. South	..	2,028	2,028	(a) 1,185 (b) 243	600
Salem, North	11,338	122,143	133,481	84,573	48,908
Do. South	..	..	..	..	..
Trichinopoly	21,855	95,441	117,296	108,086	9,210
Tanjore	(c) 38	(c) 5,622	(c) 5,660	(c) 2,220	(c) 3,440
Guntúr	(d) 4,712	50,719	55,431	44,008	11,423
Madras depots	(e) 1,438	75,640	77,078	70,810	6,268
Total	123,138	421,130 (a) 5,622 (b) 50,719 (c) 75,640	676,249	538,735	137,514
Southern Circle.					
South Canara	9,702	8,604	18,306	11,953 (b) 987 (g) 291	5,075
Malabar, North	1,680	3,475	5,155	277 (b) 2,410 (g) 581	1,887
Do. South	47,955 (h) + 425	31,362	79,742	51,196 (b) 718 (g) 180	27,648
Kollegal	5,841	54,492	60,333	46,893	13,440
Coimbatore, North	..	1,925	1,925	1,555	370
Do. Central	..	684	684	684	..
Do. South	..	5,268	5,268	1,080	4,188
Total	65,603	105,810	171,413	118,805	52,608
Grand total, Presidency	683,257	6,481,607	7,164,864	6,810,064	354,800

(a) Sold locally.
(b) Used departmentally.
(c) Belongs to Trichinopoly district.
(d) Produce received from Kurnool East.
(e) Produce received in Madras depots from other districts.
(f) Supplied to Madras depots.
(g) Written off the accounts.
(h) Added to opening balance by the Collector; sandalwood remaining with Pierce Leslie & Co. was wrongly excluded from the last year's return.
(i) Corrected in the Board's office.

Account of timber and other produce cut or collected by Government Agency and brought to depots, sold locally or otherwise disposed of during 1909–1910—*cont.*

District.	Balance at commencement of the year in forest and sale depots.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forest and sale depots.
1	2	3	4	5	6
MINOR PRODUCE (MAUNDS OF 28 LBS.).					
Northern Circle.					
Ganjám	..	1,772	1,772	1,772	..
Vizagapatam	(a) 373	5,561	5,934	1,853	4,081
Gódávari, Upper	(a) 6,080	2,620	8,700	740	7,960
Do. Lower	(a) 3,271	419	3,690	2,536	1,154
Kistna	(a) 82,626	182,879	265,505	183,442	82,063
Kurnool, East	(a) 427,300	166,750	594,050	161,842	432,208
Do. West	897	6,566	7,463	6,942	521
Bellary	(a) 35,711	32,816	68,527	24,946	43,581
Anantapur	..	..	..	..	..
Total ..	556,258	399,383	955,641	384,073	571,568
Central Circle.					
Cuddapah, North	766	6,307	7,073	4,136	2,937
Do. East	358	9,089	9,447	8,897	550
Do. South	..	3	3	3	..
Nellore	3,410	7,918	11,328	1,124	10,204
Chingleput	9,081	165	9,246	5,259	3,987
Arcot, North	3,946	2,139	6,085	4,164	1,921
Do. South	545	213	758	561	197
Salem, North	409	1,261	1,670	1,390	280
Do. South	640	..	640	390	250
Trichinopoly	62	313	375	359	16
Tanjore	(b) 209	267	476	474	2
Guntúr	66,429	52,710	119,139	99,018	20,121
Madras depots	(c) 22	5,730	5,752	5,648	104
Total ..	85,877	86,115	171,992	131,428	40,569
Southern Circle.					
South Canara	105	2,190	2,295	1,461 (c) 621	213
Malabar, North	9	566	575	553	22
Do. South	2	3	5	5	(d) ..
The Nilgiris	305	1,935	2,240	582	1,658
Kollegal	827	1,943	2,770	2,582	188
Coimbatore, North	5,042	12,844	17,886	13,866	4,020
Do. Central	6,499	15,120	21,619	2,440	19,179
Do. South	1	2	3	3	..
Tinnevelly	3	104	107	40	67
Total ..	12,793	34,707	47,500	22,153	25,347
Grand Total, Presidency ..	654,928	520,205	1,175,133	537,649	637,484

(a) As per revised figures reported by Collectors and in the case of minor produce to conversion from maunds of 25 lbs. into maunds of 28 lbs. also.
(b) Sold locally.
(c) Used departmentally.
(d) Less than 1 quarter.

ANNUAL FORM No. 79.

Forest Department, Madras Presidency.

STATEMENT showing the value of timber and other produce at sale depots for 1909–1910.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Northern Circle.			RS.			RS.	RS.	RS.
Ganjám	Sâl	..	3,908	1,954	..	29,032	21,774	19,820	..
	Miscellaneous	..	4,691	518	..	19,794	420	..	98
	Total, Timber	..	8,599	2,472	..	48,826	22,194	19,722	..
	Fuel	..	27,909	723	..	20,587	457	..	266
	Bamboos	7,491	..	126	11,621	..	157	31	..
Vizagapatam.	Timber	..	675	506	..	1,756	1,267	761	..
	Fuel	..	202,149	1,260	..	83,684	558	..	702
	Bamboos	15,165	..	353	2,028	..	30	..	323
	Minor produce	MDS. 373	..	36	MDS. 4,081	..	489	453	..
Gódávari, Upper.	Teak	..	5,299	2,649	..	2,886	1,443	..	1,206
	Yegisi	..	2,338	585	..	2,337	584	..	1
	Miscellaneous	..	11,397	1,919	..	16,142	2,426	507	..
	Total, Timber	..	19,034	5,153	..	21,365	4,453	..	700
	Fuel	..	10,003	556	..	16,767	931	375	..
	Bamboos	40,054	..	300	2,638	..	38	..	262
	Minor produce	MDS. 6,080	..	25	MDS. 7,960	..	1,475	1,450	..
Gódávari, Lower.	Teak	..	366	183	..	..	..	..	183
	Miscellaneous	..	334	42	..	2,558	161	119	..
	Total, Timber	..	700	225	..	2,558	161	..	64
	Fuel	..	91,308	4,647	..	214,980	11,197	6,550	..
	Bamboos	178,952	..	4,362	50,896	..	102	..	4,260
	Minor produce	MDS. 3,271	..	457	MDS. 1,154	..	300	..	157
Kistna	Timber	..	624	35	..	1,260	20	..	15
	Fuel	..	80,582	966	..	162,701	708	..	258
	Bamboos	15,275	..	134	..	..	..	..	134
	Minor produce	MDS. 82,626	..	623	MDS. 82,063	..	397	..	226
Kurnool, East.	Timber	..	27,662	20,747	..	33,266	34,318	13,571	..
	Fuel	..	370,572	11,438	..	182,240	10,630	..	808
	Bamboos	176,226	..	3,105	70,591	..	2,950	..	155
	Minor produce	MDS. 427,300	..	6,029	MDS. 432,208	..	287	..	5,742
Kurnool, West.	Timber	..	34,581	17,291	..	26,747	13,373	..	3,918
	Fuel	..	220,765	12,865	..	505,439	31,464	18,599	..
	Bamboos	34,272	..	325	16,640	..	140	..	185
	Minor produce	MDS. 897	..	885	MDS. 521	..	652	..	233
Bellary	Timber	..	2,096	138	..	5,864	366	228	..
	Fuel	..	112,693	7,599	..	155,642	10,495	2,896	..
	Bamboos	162	..	..	..	..	..	..	..
	Minor produce	MDS. 45,711	..	3,404	43,581	..	3,942	538	..
Anantapur	Timber	..	2,196	687	..	6,253	1,954	1,267	..
	Fuel	..	273,535	15,195	..	202,950	11,275	..	3,920
	Bamboos	26,919	..	1,682	10,264	..	641	..	1,041

NOTE.—For the differences between the closing balances of the preceding year and the opening balances of the year under report—please see remark (*a*) at foot of Form No. 78.

Statement showing the value of Timber and other Produce at sale depots for 1909–1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle.			RS.			RS.	RS.	RS.
Cuddapah, North.	Timber	9,030	2,258	3,000	12,909	3,227	4,522	1,522	..
	Fuel	..	(a) 41,529	2,810	..	69,483	5,923	3,113	..
	Bamboos	22,327	..	665	15,531	..	475	..	190
	Minor Forest produce.	..	..	..	..	400	135	135	..
Cuddapah, East.	Timber	..	3,318	1,936	..	4,507	4,219	2,283	..
	Fuel	..	318,187	13,357	..	248,135	7,372	..	5,985
	Bamboos ..	..	..	..	..	..	..	..	..
	Minor Forest produce.	320	..	3	..	..	..	..	3
Cuddapah, South.	Timber	2,461	1,181	250	1,578	1,503	150	..	100
	Fuel	..	3,074	391	..	3,000	375	..	16
	Bamboos ..	27,980	..	350	36,974	..	562	212	..
Nellore ..	Timber	..	6,559	820	..	772	398	..	422
	Fuel	..	137,027	18,650	..	197,708	20,896	2,246	..
	Bamboos ..	15,000	..	300	1,000	..	13	..	287
	Minor Forest produce.	..	3,396	2,058	..	10,205	5,189	3,131	..
Chingleput.	Timber	..	911	171	..	264	49	..	122
	Fuel	..	46,354	5,331	..	29,212	4,129	..	1,202
	Minor Forest produce.	..	(b) 1,567 7,514	503	..	(b) 3,987	..	..	503
	Madras Depots—								
	Fuel	..	55,452	12,528	..	22,886	6,562	..	5,966
	Bamboos ..	1,438	..	46	6,268	..	125	79	..
	Minor Forest produce.	..	22	9	..	104	37	28	..
Arcot, North.	Red sanders ..	..	..	..	..	89	175	175	..
	Sandalwood ..	..	2,272	27,500	..	1,358	16,437	..	11,063
	Miscellaneous Timber.	821	380	194	3,885	2,401	1,270	1,076	..
	Total, Timber ..	821	2,652	27,694	3,885	3,848	17,882	..	9,812
	Fuel	..	60,342	3,380	..	137,141	7,681	4,301	..
	Bamboos ..	17,950	..	112	220	..	4	..	108
	Minor Forest produce.	(c) 2,512 MDS.	..	1,978	1,743 MDS.	..	1,128	..	850
Arcot, South.	Sandalwood ..	..	295	3,839	..	..	..	..	3,839
	Miscellaneous Timber.	..	259	121	..	..	..	..	121
	Total, Timber ..	..	554	3,960	..		..	..	3,960
	Fuel	..	17,480	2,753	..	(d) 6,966	1,453	..	1,300
Salem, North.	Timber including Sandalwood.	..	4,399	3,320	..	4,912	3,700	380	..
	Fuel	..	91,990	11,190	..	95,833	11,979	789	..
	Bamboos ..	11,338	..	358	48,908	..	960	602	..
	Minor Forest produce.	409	..	45	280	..	25	..	20
Salem, South.	Sandalwood ..	..	69½	695	..	228	2,280	1,585	..
	Miscellaneous Timber.	..	1,225½	793	..	1,496	833	40	..
	Total, Timber ..	..	1,295	1,488	..	1,724	3,113	1,625	..
	Fuel	..	34,230	5,310	..	16,362	2,067	..	3,243
	Minor Forest produce.	MDS. 640	..	52	..	250	5	..	47

(a) Includes 7,233 lbs. of charcoal valued at Rs. 65.
(b) Value not settled for want of local demand.
(c) Includes approximately eight measures of sarapappu.
(d) Includes 338 lbs. of charcoal valued at Rs. 0.

Statement showing the value of Timber and other Produce at sale depots for 1909–1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Central Circle —cont.			RS.			RS.	RS.	RS.
Trichinopoly.	Timber	..	638	102	..	..	..	..	102
	Fuel	..	88,469	8,122	..	142,128	16,005	7,883	..
	Bamboos ..	21,815	..	1,283	9,210	..	546	..	737
	Minor Forest produce.	MDS. 62	..	43	..	..	..	..	43
Tanjore ..	Fuel	..	13,870	2,236	..	29,841	3,841	1,605	..
	Bamboos ..	38	..	4	3,440	..	736	732	..
	Minor Forest produce.	MDS. 209	..	93	..	..	..	..	93
Guntúr ..	Timber, Miscellaneous.	..	7,527	2,231	..	2,116	823	..	1,408
	Fuel	..	(*a*)315,845	30,246	..	190,095	15,695	..	14,551
	Minor Forest produce.	1,068	..	198	1,760	..	363	165	..
	Kurnool Fuel ..	..	42,027	3,470	..	57,800	5,003	1,533	..
	Do. Bamboos.	4,712	..	248	11,423	..	747	499	..
	Southern Circle.								
Canara, South.	Timber	..	7,352	5,458	..	7,062	4,973	..	485
	Fuel	..	174,342	(*b*)17,220	..	60,819	(*b*) 6,872	..	10,348
	Bamboos ..	70	..	3	228	..	34	31	..
	Minor produce ..	QRS. 57	..	363	QRS. 34	..	546	183	..
Malabar, North.	Teak	..	71,499	47,814	..	32,123	29,082	..	..
	Vengai	..	5,618		..	3,952		..	..
	Rosewood ..	..	4,211		..	2,532		..	..
	Mathi	..	10,736		..	6,752		..	..
	Venteak	..	4,229		..	1,999		..	..
	Ironwood ..	..	8,220		..	8,198		..	..
	Miscellaneous ..	..							
	Total, Timber ..	..	104,513	47,814	..	55,556	29,082	..	18,732
	Fuel	..	5,400	270	..	5,040	244	..	26
	Bamboos ..	1,680	..	66	1,887	..	82	16	..
	Minor produce ..	QRS. 9	..	19	QRS. 22	..	205	186	..
Malabar, South.	Teak	..	115,051	155,718	..	31,510	81,480	..	..
	Rosewood ..	..	58		..	1,641		..	..
	Ironwood ..	..	10,868		..	12,284		..	..
	Mathi	..	10,108		..	17,681		..	..
	Vengai	..	70		..	500		..	..
	Miscellaneous ..	..	475		..	6,573		..	..
	Total, Timber ..	..	136,630	155,718	..	70,189	81,480	..	74,238
	Fuel	..	22	2	..	405	8	6	..
	Bamboos ..	47,955	..	2,850	27,648	..	1,650	..	1,200
	Minor produce ..	QRS. 2	..	212	(*c*)	..	28	..	184
Nilgiris, The.	Teak	..	10,560	6,270	..	6,140	3,169	..	..
	Vengai	..	1,132	590	..	910	309	..	..
	Rosewood ..	..	113	49	..	254	474	..	..
	Venteak	..	..	..	..	361	83	..	..
	Miscellaneous ..	..	61	23	..	140	26	..	..
	Total, Timber ..	..	11,866	6,932	..	7,805	4,061	..	2,871
	Fuel	..	10,986	1,213	..	16,544	1,772	559	..
	Minor produce ..	QRS. 11	..	91	QRS. 12	..	331	240	..

(*a*) Includes 1,632 cubic feet of charcoal valued at Rs. 189.

(*b*) Includes value of brushwood bundles.

(*c*) Less than 1 quarter.

Statement showing the value of Timber and other Produce at sale depots for 1909-1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year. Number.	Cubic feet.	Value.	On hand at close of the year. Number.	Cubic feet.	Value.	Difference in value. In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
	Southern Circle—cont.			RS.			RS.	RS.	RS.
Kollegal	Sandalwood	..	981	9,192	..	1,889	22,668	..	..
	Teak	..	165	329	..	41	5	..	..
	Vengai	..	67	134	..	1	2	..	..
	Rosewood	..	5	2	..	2	1	..	..
	Mathi	..	58	37	..	..	..	..	..
	Miscellaneous	..	218	44	..	917	236	..	..
	Total, Timber	..	1,494	9,738	..	2,850	22,912	13,174	..
	Fuel	..	134,903	8,366	..	9,494	593	..	7,773
	Bamboos	5,841	..	84	5,507	..	80	..	4
	Minor produce	QRS. 827	..	2,155	QRS. 188	..	2,143	..	12
Coimbatore, North.	Sandalwood	..	1,004	9,408	..	295	3,539	..	..
	Rosewood	..	2,900	967	..	290	105	..	..
	Miscellaneous	..	537	114	..	..	..	..	..
	Total, Timber	..	4,441	10,489	..	585	3,644	..	6,845
	Fuel	..	118,893	7,494	..	88	34	..	7,460
	Minor produce	QRS. 5,042	..	5,569	..	QRS. 4,020	5,191	..	378
Coimbatore, Central.	Timber, Miscellaneous.	..	..	..	..	13,031	2,000	2,000	..
	Fuel	..	6,513	664	..	44,599	2,870	2,206	..
	Minor produce	QRS. 6,499	..	1,264	QRS. 19,179	..	3,441	2,177	..
Coimbatore, South.	Teak	..	33,640	68,299	..	39,736	75,133	..	..
	Rosewood	..	702	1,264	..	263	486	..	..
	Ironwood	..	202	112	..	9	4	..	..
	Vengai	..	154	147	..	..	..	..	..
	Mathi	..	2,876	1,610	..	210	167	..	..
	Venteak	..	1,653	1,122	..	72	46	..	..
	Miscellaneous	..	1,130	1,064 (a) + 36	..	924	784	..	..
	Total, Timber	..	40,337	73,654	..	41,214	76,620	2,966	..
	Fuel	..	3,286	244	..	2,293	168	..	76
	Bamboos	..	..	..	2,183	..	202	202	..
	Minor produce	QRS. 1	..	8	..	..	..	..	8
Madura	Timber	..	1,438	359	..	973	225	..	134
	Fuel	..	25,452	2,545	..	4,775	412	..	2,133
Tinnevelly	Timber, Miscellaneous.	..	82	43	..	..	..	..	43
	Fuel	..	1,568	151	..	37	5	..	146
	Minor produce	QRS. 3	..	10	QRS. 67	..	248	238	..

(*a*) Added to opening balance by the Collector.

Statement showing the value of Timber and other Produce at sale depots for 1909-1910—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
1	2	3	4	5	6	7	8	9	10
				Abstract.					
				RS.			RS.	RS.	RS.
Northern Circle.	Timber	..	96,167	47,254	..	147,895	78,106	30,852	..
	Fuel	..	1,389,516	55,249	..	1,544,990	77,715	22,466	..
	Bamboos ..	494,516	..	10,387	164,678	..	4,058	..	6,329
	Minor produce ..	MDS. 556,258	..	11,459	MDS. 571,568	..	7,542	..	3,917
	Total ..	..	..	1.24,349	..	..	1,67,421	43.072	..
Central Circle.	Timber	..	31,292	44,972	..	22,873	34,856	..	10,116
	Fuel	..	1,265,876	1,19,774	..	1,246,590	1,08,981	..	10,793
	Bamboos ..	122,598	..	3,366	132,974	..	4,168	802	..
	Minor produce ..	MDS. 17,719	..	4,982	MDS. 18,729	..	6.882	1,900	..
	Total, value ..	..	..	1,73,094	..	..	1,54,887	..	18,207
Southern Circle.	Timber	..	308,153	3,10,205	..	199,265	2,24,997	..	85,208
	Fuel	..	481,365	38,169	..	144,094	12,978	..	25,191
	Bamboos ..	55,546	..	3,003	37,453	..	2,048	..	955
	Minor produce ..	QRS. 12,451	..	9,691	QRS. 23,522	..	12,133	2,442	..
	Total, value ..	..	..	3,61,068	..	..	2,52,156	..	1,08,912
Total, Presidency.	Timber	..	4?5,612	4,02,431	..	370,033	3,37,959	..	64,472
	Fuel	..	3,136,757	2,13,192	..	2,935,674	1,99,674	..	13,518
	Bamboos	672,660	..	16,756	235,105	..	10,274	..	6,482
	Minor produce	MDS. 573,977	..	..	MDS. 590,2 97	..	..	..	..
		QRS. 12,451	..	26,132	QRS. 23,522	..	26,557	425	..
	Grand Total, Presidency ..	..	..	6,58,511	..	..	5,74 464	..	84,047

ANNUAL FORM NO. 80.

Forest Department, Madras Presidency.

SUMMARY of Revenue of the different districts for the Forest year 1909–1910.

ANNUAL

Forest Department,

SUMMARY of Revenue of the different districts

Budget heads, Receipts.	Northern							
	Direction.	Parláki-medi Maliahs.	Ganjám.	Vizaga-patam.	Gódávari Upper.	Gódávari Lower.	Kistna.	Kurnool West.
1	2	3	4	5	6	7	8	9
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—								
(a) Timber	..	550	3,879	2,058	6,690	175	403	29,881
(b) Firewood and charcoal	2	..	5,021	11,304	9,919	37,928	47,441	31,792
(c) Bamboos	..	20	7,446	12,132	2,235	1,961	262	43,902
(d) Sandalwood	..	..	..	..	..	..	..	..
(e) Grass and other minor produce ..	122	17	..	211	27	37	616	6,472
II. Timber and other produce removed from the forests by consumers or purchasers—								
(a) Timber	..	..	11,467	1,310	26,909	39,056	5,144	2,657
(b) Firewood and charcoal	..	..	1,341	1,068	135	6,364	18,307	12,184
(c) Bamboos	..	..	177	4,208	5,163	44,639	1,595	11
(d) Grazing and fodder grass ..	..	9	11,932	5,495	10,847	18,526	21,731	26,202
(e) Other produce	..	..	2,579	11,855	747	33,941	11,149	27,872
(f) Tree-owner's fees	..	..	790	341	..	4,743	6,858	20,060
(g) Other items	..	..	..	..	..	..	..	..
(h) Commutation fees	..	..	..	..	1,266	..	..	..
III. Confiscated drift and waifwood	..	33	293	79	530	1,933	108	730
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	
V. Miscellaneous—								
(a) Fines and forfeitures	..	53	371	572	..	364	623	811
(b) Other sources	16	175	2,055	1,505	1,235	5,235	2,320	5,726
Total, Receipts ..	140	857	47,351	52,138	65,703	1,94,902	1,16,557	2,08,300

Budget heads.	Central Circle—*cont.*							
	South Arcot.	North Salem.	South Salem.	Trichi-nopoly.	Tanjore.	Total.	Direction.	South Canara.
	22	23	24	25	26	27	28	29
Receipts.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other p oduce removed from the forests by Government Agency—								
(a) Timber	20	5,407	2,247	96	..	59,625	..	6,230
(b) Firewood and charcoal	50,597	44,438	25,616	51,264	9,970	5,15,013	..	33,264
(c) Bamboos	106	2,446	14	3,103	..	8,618	..	906
(d) Sandalwood	49,150	12,416	2	1	..	83,795	63,579	..
(e) Grass and other minor produce ..	58	293	5	143	2	19,650	240	12,222
II. Timber and other produce removed from the forests by consumers or purchasers—								
(a) Timber	13,858	7,405	7,854	13,877	..	1,01,099	..	5,038
(b) Firewood and charcoal	33,733	1,678	7,925	19,589	3,399	1,51,504	..	12,397
(c) Bamboos	11,057	31,300	17,580	656	367	95,812	..	1,129
(d) Grazing and fodder grass ..	53,805	40,677	25,933	19,532	839	4,24,831	..	10,155
(e) Other produce	49,711	15,479	24,104	28,988	5,882	3,39,063	600	16,222
(f) Tree-owner's fees	2,003	3,233	393	4	93	31,520	..	3,579
(g) Other items	..	557	1,183	..	..	2,647	..	..
(h) Commutation fees	..	..	13,352	..	..	13,352	..	..
III. Confiscated drift and waifwood	320	96	177	100	..	2,989	..	1,522
IV. Revenue from forest not managed by Government	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(a) Fines and forfeitures	455	2,710	1,223	1,826	330	10,970	..	874
(b) Other sources	1,596	7,620	9,900	14,887	4,663	58,132	8,242	10,055
Total, Receipts ..	2,66,469	1,75,785	1,37,508	1,54,066	25,545	19,18,620	72,661	1,13,593

FORM No. 80.

Madras Presidency.

for the Forest year 1909-1910.

Circle.				Central Circle.							
Kurnool East.	Bellary.	Ananta-pur.	Total.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cudda-pah, South.	Cudda-pah, East.	Chingle-put.	North Arcot.
10	11	12	13	14	15	16	17	18	19	20	21
RS.	RS.	RS.	RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.
21,812	634	1,749	67,831		2,901	1,047	21,545	122	19,644	420	6,176
12,232	15,524	19,214	1,90,377		52,676	1,13,680	35,245	3,763	42,062	25,713	59,989
11,733	874	1,243	81,808		..	285	923	695	2	..	1,044
..	..	..	..		..	..	..	..	7	..	22,189
1,865	2,116	24	11,507		7,326	7,813	726	22	1,692	182	1,388
6	12,110	9,042	1,07,701		18,596	7,383	1,811	2,490	1,913	8,974	16,938
1,020	2,609	1,069	44,097		408	52,475	5,889	1,252	859	5,282	19,015
7	10	..	55,810		..	26	1,044	251	5,777	35	27,719
42,356	46,675	24,404	2,08,177		89,324	55,548	24,549	20,873	21,444	15,658	56,649
4,277	60,973	89,398	2,42,791		19,172	38,322	25,585	57,661	16,566	13,877	43,716
3,499	24,133	10,813	71,237		5,655	2,826	1,950	2,850	1,796	3,372	7,345
73	.	..	73		..	..	..	..	907	..	..
..	..	..	1,266		.	.	..	..	..	..	..
256	43	106	4,111		86	564	161	119	485	65	816
..	..	..	..		..	..	..	..	..	..	..
335	1,755	862	5,746		127	676	447	231	377	294	2,274
1,066	8,213	3,907	31,453		9,037	6,823	427	419	363	548	1,849
1,00,537	1,75,669	1,61,831	11,23,985		2,05,308	2,87,468	1,20,302	90,748	1,13,894	74,420	2,67,107

Southern Circle.

North Malabar.	South Malabar.	Nilgiris.	Kollegal.	North Coimbatore.	Central Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	Total.
30	31	32	33	34	35	36	37	38	39
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
15,541	1,37,728	24,742	401	850	12,509	20,009	381	18	2,18,409
567	67	20,093	8,561	9,393	14,887	9,953	81,634	390	1,78,809
4	3,012	..	1,045	.	..	38	..	..	5,005
..	..	..	..	5,965	1	..	15	..	69,560
1,800	560	973	3,109	8,241	261	425	555	133	28,519
20,563	3,965	983	1,350	5,258	4,821	286	18,475	4,880	65,619
6	4	2,306	262	2,457	21,484	1,578	51,373	88,181	1,80,048
238	613	1,595	361	13,211	9,725	3,027	4,903	686	35,491
2,319	..	8,293	22,287	29,996	5,876	4,389	44,923	8,524	1,36,762
3,744	2,186	1,722	1,146	5,134	8,316	3,947	41,212	39,763	1,23,992
	1	..	8	..	55	4	13	312	3,972
..	..	..	..	..	..	..	..	42	42
..	..	..	..	..	..	..	..	..	..
97	57	70	105	450	167	55	304	1,550	4,377
..	..	..	..	..	..	..	..	..	..
429	334	215	939	2,977	696	130	721	1,133	8,448
12,018	3,985	6,658	4,701	5,608	3,902	8,177	13,001	6,195	82,545
57,326	1,52,512	67,650	44,278	89,543	82,700	52,018	2,57,510	1,51,807	11,41,598

ACCOUNTANT-GENERAL'S OFFICE,
MADRAS,
1*st September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

Northern Circle.

NOTE.—(1) As the administration of the Parlákimedi Maliahs was placed under the control of the Agent to the Governor at Ganjám, the figures relating to it were not taken into account in the Report except in chapter III.

(2) Excludes Rs. 29,006 under I-*b* and Rs. 3,013 under I-*c* realised in Guntúr on account of fuel and bamboos of Kurnool East since reported by the Conservator, Central Circle.

Central Circle.

NOTE.—The form has been corrected in the Circle office by distributing the Madras Bank realizations and book adjustments and expenditure in Madras depots to the respective supplying districts and by deducting the revenue realised and expenditure incurred on account of the sale of Kurnool fuel and bamboos from the Guntúr district for transfer to Northern Circle to the credit of Kurnool district and by transferring the amounts realized in Tanjore on account of Trichinopoly district to the latter district.

Southern Circle.

NOTE.—The revenue under "Direction" is distributed as follows:—

I (*d*) North Coimbatore, Rs. 63,579.
I (*e*) South Canara, Rs. 240.
II (*e*) South Coimbatore, Rs. 600.
V (*b*) South Coimbatore, Rs. 8,048, Direction, Rs. 194.

Forest Department, Madras Presidency, Northern Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1909–1910.

Budget heads.	Direction.	Parlákimedi Maliahs, Ganjám.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.	Kistna.	Kurnool, West.	Kurnool, East.	Bellary.	Anantapur.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Refunds and drawbacks ..	..	..	157	505	742	1,523	586	979	398	4,087	351	9,328
A. Conservancy and Works.												
Timber and other produce removed from the forest by Government Agency—												
(*a*) Timber	..	444	11,385	770	2,588	102	184	14,330	12,662	659	4,237	47,361
(*b*) Firewood and charcoal ..	..	..	3,310	5,006	8,943	20,028	28,477	36,226	29,527	14,223	9,694	1,55,434
(*c*) Bamboos ..	..	10	5,482	6,261	114	111	310	22,091	11,430	385	580	46,774
(*d*) Sandalwood ..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Grass and other minor produce.	..	1	353	127	974	4	274	3,901	3,555	4,303	8	13,500
II. Timber and other produce removed from the forests by consumers or purchasers	..	160	6,184	5,459	4,841	12,726	1,956	13,162	8,439	2,473	1,526	56,926
III. Confiscated drift and waifwood	..	10	3	2	115	1,157	3	56	19	4	..	1,369
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	400	..	..	..	..	..	8,000	..	8,400
VI Live-stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	..	752	974	922	..	..	801	1,925	4,556	..	9,930
(*c*) Stores, tools and plant	391	528	2,690	85	3,570	5,350	536	318	2,218	2,491	795	18,972
VII. Communications and buildings—												
(*a*) Roads and bridges ..	11,623	..	2,700	284	1,431	2,816	445	381	3,586	1,002	923	25,191
(*b*) Buildings ..	13,196	56	10,879	1,474	4,281	6,733	1,610	7,252	16,632	11,719	5,440	79,272
(*c*) Other works ..	840	1	185	52	585	464	409	387	3,593	735	124	7,375
VIII. Demarcation, improvement and extension of forests—												
(*a*) Demarcation ..	..	577	2,803	520	147	671	941	1,984	738	1,495	2,354	12,230
(*b*) Cost of forest settlement; compensation for land and rights.	..	2	63	..	..	21	..	23	312	89	..	510
(*c*) Surveys—												
(1) Local ..	647	..	796	..	994	368	961	1,049	1,762	1,047	819	8,443
(2) India ..	2,306	..	..	..	..	..	..	..	..	..	..	2,306
(*d*) Working plans ..	..	..	..	..	..	486	..	..	..	..	..	486
(*e*) Sowing and planting	5,897	20	1,285	151	1,268	5,148	8,725	46,434	11,335	50,693	3,950	1,34,906
(*f*) Protection from fire	..	..	2,957	1,614	9,399	4,693	1,196	8,434	20,565	9,670	1,910	60,438
(*g*) Other works ..	..	..	435	26	50	398	11,834	1,643	1,010	15,900	6,536	37,832
IX. Miscellaneous—												
(*a*) Law charges ..	48	..	..	..	..	..	..	..	55	..	..	103
(*b*) Other charges ..	57	..	62	2	1	13	4	69	48	344	605	1,205
Total, A. Conservancy and Works	35,005	1,809	52,481	23,712	40,965	62,812	58,451	1,59,520	1,29,809	1,33,875	39,852	7,38,291

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Parlakimidi Malias, Ganjám.	Ganjám.	Vizagapatam.	Gódávari, Upper.	Gódávari, Lower.	Kistna.	Kurnool, West.	Kurnool, East.	Bellary.	Anantapur.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total, A. Conservancy and Works	35,005	1,809	52,481	23,712	(a) 40,965	62,812	58,451	1,59,520	1,29,809	1,33,875	39,852	7,38,291
B. Establishments.												
I. Salaries—												
(a) Conservators	20,400	..	..	..	..	..	..	..	..	..	..	20,400
(b) Superior officers	8,797	4,410	11,356	15,000	3,600	5,951	4,800	17,812	9,150	19,964	7,725	1,08,565
(c) Subordinate Forest and Depot establishments . ..	10,118	1,852	14,758	7,170	6,157	12,111	9,007	23,153	22,983	24,401	10,487	1,42,197
(d) Office establishments	11,128	746	4,374	2,878	3,237	5,435	3,357	7,333	6,496	7,127	3,764	55,875
(e) Deputation and special allowances	..	..	..	..	..	..	..	..	..	..	..	..
Exchange compensation allowance.	4	..	..	..	..	..	..	..	..	..	..	4
II. Travelling allowances—												
(a) Conservators	3,349	..	..	..	..	..	..	..	..	..	225	3,574
(b) Superior officers	2,099	2,124	2,712	1,379	2,116	648	1,173	3,062	2,277	2,093	1,680	21,363
(c) Subordinate Forest and Depot establishments	2,847	467	3,672	1,888	2,246	3,447	2,423	6,157	5,823	7,025	3,032	39,027
(d) Office establishments	1,429	342	955	681	972	846	810	1,285	2,263	1,291	1,323	12,197
III. Contingencies—												
(a) Rents, rates and taxes	107	50	100	416	2	132	607	228	182	697	84	2,605
(b) Official postage and telegrams ..	1,516	89	1,084	557	660	1,537	967	1,639	1,994	1,539	1,305	12,887
(c) Sundries	2,391	498	1,933	666	956	2,289	920	2,263	2,952	2,495	1,402	18,765
Total, B. Establishments ..	64,185	10,578	40,944	30,635	19,946	32,396	24,064	62,932	54,120	66,632	31,027	4,37,459
Grand total of expenditure ..	99,190	12,387	93,425	54,347	60,911	95,208	82,515	2,22,452	1,83,929	2,00,507	70,879	11,75,750

(a) Corrected in the Board's Office.

MALRAS,
31st *August* 1910.

J. F. GRAHAM,
Dy. Accountant-General.

Note.—(1) As the administration of the Parlákimedi Maliahs was placed under the control of the Agent to the Governor at Ganjám the figures relating to it were not taken into account in the report except in Chapter III.

(2) Excludes Rs. 17,479 under I-*b* and Rs. 679 under I-*c* spent in Guntúr on account of fuel and bamboos of Kurnool East since reported by the Conservator, Central Circle.

A. W. LUSHINGTON,
Conservator of Forests, Northern Circle.

Forest Department, Madras Presidency, Central Circle.

Summary of Expenditure of the different districts for the Forest year 1909–1910.

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, South.	Cuddapah, East.	Chingleput.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Tanjore.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Refunds and Drawbacks.	8	923	3,163	2,221	1,366	52	600	1,795	2,978	1,333	387	694	335	15,855
A. Conservancy and Works.														
Timber and other produce removed from the forest by Government Agency—														
(*a*) Timber ..	..	587	629	9,945	297	3,857	155	1,981	157	3,375	2,348	205	.	23,536
(*b*) Firewood and charcoal ..	— 149	27,777	75,552	24,986	2,767	34,157	15,729	32,496	18,705	36,071	22,288	39,529	7,308	3,37,216
(*c*) Bamboos ..	..	..	53	365	537	1	..	914	71	2,162	.	3,219	1	7,323
(*d*) Sandalwood ..	..	..	..	..	..	..	..	1,612	2,976	943	319	..	..	5,850
(*e*) Grass and other minor produce ..	..	5,564	4,155	229	11	1,535	69	950	24	101	35	63	..	12,736
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	4,425	3,250	6,487	2,845	8,208	2,100	4,375	2,956	1,892	6,851	1,989	334	45,712
III. Confiscated drift and waifwood	..	2	5	6	22	55	..	79	2	8	31	..	.	210
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VI. Live-stock, stores, tools and plant—														
(*a*) Purchase of cattle ..	..	..	..	..	..	422	..	45	..	1,861	..	50	..	2,378
(*b*) Feed and keep of cattle ..	..	..	..	..	..	1,095	..	357	1,158	5,554	..	2,659	..	10,823
(*c*) Stores, tools and plant ..	356	1,035	7,587	264	261	158	513	713	1,222	1,870	208	2,932	1,538	18,657
VII. Communications and buildings—														
(*a*) Roads and bridges ..	..	204	239	1,130	207	1,084	1,002	3,107	274	14,445	1,139	— 282	..	22,549
(*b*) Buildings ..	12	3,099	3,323	1,966	1,516	1,500	2,761	2,804	7,248	12,737	3,430	683	657	41,736
(*c*) Other works ..	..	486	254	326	..	19	49	8	2,634	1,100	52	418	..	5,346
VIII. Demarcation, improvement and extension of forests—														
(*a*) Demarcation ..	..	307	1,466	266	57	252	2,346	483	1,150	549	149	137	..	7,162
(*b*) Cost of forest settlement; compensation for land and rights ..	..	4,328	95	..	..	29	..	135	..	187	73	..	..	4,847
(*c*) Surveys—														
(1) Local ..	860	384	406	..	..	319	385	317	375	2,179	801	980	38	7,044
(2) India ..	3	..	..	..	..	..	..	..	..	..	..	..	..	3
(*d*) Working-plans.	6	10	138	496	..	153	..	..	397	..	73	..	..	1,273
(*e*) Sowing and planting ..	136	13,480	15,445	858	648	547	2,837	3,530	2,699	571	366	3,252	1,645	46,014
(*f*) Protection from fire	..	..	1,553	3,778	671	5,159	898	1,932	2,387	2,442	3,329	86	..	22,235
(*g*) Other works ..	..	12,427	5,673	3,774	2,241	1,232	9,666	18,509	18,080	7,996	7,462	5,478	919	93,457
X. Miscellaneous—														
(*a*) Law charges ..	48	..	..	..	..	..	..	41	..	50	..	..	..	139
(*b*) Other charges ..	..	..	265	122	..	28	35	81	35	288	24	31	..	909
Total, A. Conservancy and Works	1,280	75,038	1,23,251	57,219	13,446	59,862	39,145	76,264	65,528	97,714	49,365	62,123	12,775	7,33,010

Note.—*Vide* footnote under summary of revenue.

Madras,
1st September 1910

J. F. Graham,
Dy. Accountant-General

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Guntúr.	Nellore.	Cuddapah, North.	Cuddapah, South.	Cuddapah, East.	Chingleput.	North Arcot.	South Arcot.	North Salem.	South Salem.	Trichinopoly.	Tanjore.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, total ..	1,280	75,038	1,23,251	57,219	13,446	59,862	39,145	76,264	65,528	97,714	49,365	62,123	12,775	7,33,010
B. Establishments.														
I. Salaries—														
(*a*) Conservators	23,265	..	..	..	..	..	..	..	..	..	..	..	..	23,265
(*b*) Superior officers ..	3,416	17,874	5,400	2,882	11,158	4,050	3,992	18,394	5,500	16,930	8,774	9,058	..	1,07,428
(*c*) Subordinate Forest and Depot establishments.	7,942	12,535	14,737	7,852	4,514	12,334	8,085	23,385	14,776	14,629	12,607	10,109	1,908	1,45,413
(*d*) Office establishments ..	10,130	5,253	9,852	3,809	2,667	4,140	2,689	5,785	7,202	5,426	4,950	4,143	1,734	67,780
(*e*) Deputation and Special allowances	..	..	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling allowances—														
(*a*) Conservators ..	2,724	..	..	..	..	..	..	..	..	..	..	..	..	2,724
(*b*) Superior officers ..	..	1,199	1,265	951	1,149	962	1,155	1,826	1,238	1,929	1,090	796	462	14,022
(*c*) Subordinate Forest and Depot establishments ..	1,753	3,045	4,863	2,174	1,126	2,866	1,945	5,103	3,476	4,895	3,293	3,455	982	38,976
(*d*) Office establishments	1,070	1,224	2,200	821	630	747	396	818	1,041	1,352	440	968	258	11,965
III. Contingencies—														
(*a*) Rents, rates and taxes	..	279	689	296	32[illegible]	447	216	284	418	50	77	142	120	3,346
(*b*) Official postage and telegrams	1,053	1,190	1,457	915	521	903	677	2,150	2,327	2,281	953	1,247	401	16,075
(*c*) Sundries	1,744	1,153	1,362	1,630	679	949	416	838	1,807	1,697	967	2,265	415	15,922
Total, B. Establishments ..	53,097	43,752	41,825	21,330	22,772	27,398	19,571	58,583	37,785	49,189	33,151	32,183	6,280	4,46,916
Grand total of expenditure.	54,377	1,18,790	1,65,076	78,549	36,218	87,260	58,716	1,34,847	1,03,313	1,46,903	82,516	94,306	19,055	11,79,926

NOTE.—*Vide* footnote under summary of revenue.

MADRAS,
1st *September* 1910.

J. F. GRAHAM,
Dy. Accountant-General.

Forest Department, Madras Presidency, Southern Circle.

SUMMARY of Expenditure of the different districts for the Forest year 1909-1910.

Budget heads.	Direction.	South Canara.	North Malabar.	South Malabar.	Nilgiris, The.	Kollegal.	Coimbatore, North.	Coimbatore, Central.	Coimbatore, South.	Madura.	Tinnevelly.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. REFUNDS AND DRAWBACKS.	4	364	1,006	35	168	12	1,033	263	252	1,116	1,011	5,264
A. Conservancy and Works.												
Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber ..	..	1,628	4,343	7,203	3,624	176	68	690	11,156	..	..	28,888
(*b*) Firewood and charcoal ..	— 6	11,616	264	..	11,922	6,748	7,092	16,382	8,114	52,002	10	1,14,144
(*c*) Bamboos ..	..	494	85	1,385	..	349	10	40	418	..	..	2,781
(*d*) Sandalwood ..	..	..	..	..	289	2,199	16,474	..	..	..	..	19,962
(*e*) Grass and other minor produce.	..	3,076	400	2	1,214	1,241	4,333	887	46	..	126	11,325
II. Timber and other produce removed from the forests by consumers or purchasers ..	..	5,787	455	4	841	1,409	2,650	3,435	2,845	3,236	3,220	23,862
III. Confiscated drift and waifwood	..	5	56	31	9	7	12	16	14	30	..	180
V. Rent of leased forests and payments to shareholders in forests managed by Government	..	..	..	88	4,500	..	..	..	2,500	..	..	7,088
VI. Live-stock, stores, tools and plant—												
(*a*) Purchase of cattle ..	..	..	2,694	1,825	393	..	..	..	328	159	164	5,563
(*b*) Feed and keep of cattle ..	— 54	4,382	35,458	17,748	9,626	3,621	17	..	13,410	1,359	1	85,568
(*c*) Stores, tools and plant ..	639	2,037	1,343	1,093	1,911	932	1,304	771	4,067	664	452	15,213
VII. Communications and buildings—												
(*a*) Roads and bridges ..	..	2,309	2,272	1,092	2,742	2,963	6,476	1,362	4,830	8,968	5,409	38,423
(*b*) Buildings ..	40	2,185	5,214	1,231	7,097	4,477	4,854	1,677	7,190	5,290	4,248	43,503
(*c*) Other works ..	..	619	104	947	218	121	884	183	575	707	299	4,657
VIII. Demarcation, improvement and extension of forests—												
(*a*) Demarcation ..	..	1,996	..	567	1,986	169	136	517	288	6,994	549	13,202
(*b*) Cost of forest settlement; compensation for land and rights ..	..	68	..	1,02,951	..	..	20	..	1,302	1,744	2,594	1,08,679
(*c*) Surveys { Local.	..	385	576	362	380	52	494	621	463	623	319	4,275
(*c*) Surveys { India.	..	..	..	..	..	..	..		..	..	..	..
(*d*) Working plans.	..	..	22	188	..	..	2	..	..	..	..	212
(*e*) Sowing and planting ..	544	457	1,886	8,860	2,026	7	89	371	1,362	9,053	1,614	26,269
(*f*) Protection from fire	..	3,475	4,400	2,297	3,801	1,242	1,256	2,354	1,662	2,490	2,592	25,569
(*g*) Other works ..	..	785	1,982	2,148	1,281	2.689	3,791	8,933	1,114	11,973	5,913	40,609
IX. Miscellaneous—												
(*a*) Law charges ..	48	1	.	..	..	..	..	..	— 95	..	73	27
(*b*) Other charges ..	465	57	165	91	3,568	61	76	492	284	71	38	5,368
Total, A. Conservancy and Works	1,680	41,726	62,725	1,50,148	57,596	29,475	51,051	38,994	62,125	1,06,479	28,632	6,30,631

MADRAS,
1st September 1910.

J. F. GRAHAM,
Deputy Accountant-General.

Note.—In Central Coimbatore Rs. 642 and Rs. 113 which were debited to A-VII (*a*) and A-VII (*b*) respectively have been erroneously included under A-VII (*b*) and A-VII (*c*) in the audit office. The correct figures should be as follow:—

		Central Coimbatore.	Total.
A-VII	(*a*)	2,004	39,065
	(*b*)	1,148	42,974
	(*c*)	70	4,544

Summary of Expenditure of the different districts for the Forest year 1909–1910—*cont.*

Budget heads.	Direction.	Canara, South.	Malabar, North	Malabar, South	Nilgiris, The.	Kollegal.	Coimbatore, North.	Coimbatore, Centre.	Coimbatore, South.	Madura.	Tinnevelly.	Total
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, total, A. Conservancy and Works.	1,680	41,726	62,725	1,50,148	57,596	29,475	51,051	38,994	62,125	1,06,479	28,632	6,30,631
B. Establishments.												
I. Salaries—												
(*a*) Conservators ..	18,000	..	..	..	..	..	..	..	..	..	..	18,000
(*b*) Superior officers ..	3,240	9,602	15,625	4,120	15,388	..	14,178	10,226	19,491	16,787	13,150	1,21,807
(*c*) Subordinate Forest and Depot establishments ..	5,608	13,636	10,094	7,381	12,568	6,969	13,087	7,006	7,881	14,929	15,830	1,14,989
(*d*) Office establishments	10,856	6,310	4,774	4,179	5,191	3,420	5,157	3,167	4,298	4,995	4,816	57,163
(*e*) Deputation and special allowances	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling Allowances—												
(*a*) Conservators ..	2,455	..	..	..	..	..	..	..	..	..	..	2,455
(*b*) Superior officers ..	578	2,041	1,551	1,186	2,338	706	1,021	1,285	2,230	1,814	1,231	15,981
(*c*) Subordinate Forest and Depot establishments ..	1,626	4,179	2,214	2,367	2,448	1,959	2,848	2,103	1,699	5,393	3,921	30,757
(*d*) Office establishments	872	1,151	960	1,048	529	482	585	662	597	1,336	926	9,148
III. Contingencies—												
(*a*) Rents, rates and taxes	120	40	82	16	846	87	66	86	109	1,173	201	2,826
(*b*) Official postage and telegrams ..	676	1,504	601	703	451	673	1,011	698	684	1,469	1,151	9,621
(*c*) Sundries	1,795	1,039	1,280	2,747	902	1,397	1,458	1,174	1,414	1,679	988	15,873
Total, B. Establishments.	45,826	39,502	37,181	23,747	40,661	15,693	39,411	26,407	38,403	49,575	42,214	3,98,620
Grand total of Expenditure.	47,506	81,228	99,906	1,73,895	98,257	45,168	90,462	65,401	1,00,528	1,56,054	70,846	10,29,251

MADRAS,
1st *September* 1910.

J. F. GRAHAM,
Deputy Accountant-General.

SUMMARY of Receipts and Expenditure during 1909–1910 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement.

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1909–1910.	1908–1909.
1	2	3	4	5	6
RECEIPTS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	67,831	59,625	2,18,409	3,45,865	3,74,411
(b) Firewood and charcoal	1,90,377	5,15,013	1,78,809	8,84,199	7,46,103
(c) Bamboos	81,808	8,618	5,005	95,431	92,056
(d) Sandalwood	..	83,795	69,560	1,53,355	87,130
(e) Grass and other minor produce ..	11,507	19,650	28,519	59,676	50,514
Total, I ..	3,51,523	6,86,701	5,00,302	15,38,526	13,50,214
II Timber and other produce removed from the forests by consumers or purchasers—					
(a) Timber	1,07,701	1,01,099	65,619	2,74,419	2,45,319
(b) Firewood and charcoal	44,097	1,51,504	1,80,048	3,75,649	3,91,639
(c) Bamboos	55,810	95,812	35,491	1,87,113	1,61,602
(d) Grazing and fodder grass	2,08,177	4,24,831	1,36,762	7,69,770	7,82,510
(e) Other produce	2,42,791	3,39,063	1,23,992	7,05,846	6,33,718
(f) Tree-owners' fees	71,237	31,520	3,972	1,06,729	98,613
(g) Other items	73	2,647	42	2,762	917
(h) Commutation fees	1,266	13,352	..	14,618	22
Total, II ..	7,31,152	11,59,828	5,45,926	24,36,906	23,14,340
III. Confiscated drift and waif wood	4,111	2,989	4,377	11,477	15,178
IV. Revenue from forests not managed by Government	..	..	..	..	..
V. Miscellaneous—					
(a) Fines and forfeitures	5,746	10,970	,8448	25,164	9,608
(b) Other sources	31,453	58,132	82,545	1,72,130	1,96,956
Total, V ..	37,199	69,102	90,993	1,97,294	2,06,564
Grand Total, Receipts	11,23,985	19,18,620	11,41,598	41,84,203	38,86,296
EXPENDITURE.					
I. Refunds and drawbacks	9,328	15,855	5,264	30,447	24,379
A. Conservancy and Works.					
I. Timber and other produce removed from the forests by Government Agency—					
(a) Timber	47,361	23,536	28,888	99,785	97,946
(b) Firewood and charcoal	1,55,434	3,37,216	1,14,144	6,06,794	5,25,249
(c) Bamboos	46,774	7,323	2,781	56,878	58,197
(d) Sandalwood	..	5,850	19,962	25,812	22,339
(e) Grass and other minor produce ..	13,500	12,736	11,325	37,561	31,765
Total, A-I ..	2,63,069	3,86,661	1,77,100	8,26,830	7,35,496
II. Timber and other produce removed from the forests by consumers or purchasers ..	56,926	45,712	23,862	1,26,500	1,29,930
III. Confiscated drift and waif wood	1,369	210	180	1,759	1,794
V. Rent of leased forests and payments to shareholders in forests managed by Government	8,400	..	7,088	15,488	15,634
VI. Live-stock, stores, tools and plant—					
(a) Purchase of cattle	..	2,378	5,563	7,941	6,523
(b) Feed and keep of cattle ..	9,930	10,823	85,568	1,06,321	1,02,096
(c) Stores, tools and plant	18,972	18,657	15,213	52,842	55,407
Total, A-VI ..	28,902	31,858	1,06,344	1,67,104	1,64,026
VII. Communications and buildings—					
(a) Roads and bridges	25,191	22,549	38,423	86,163	81,862
(b) Buildings	79,272	41,736	43,503	1,64,511	1,35,033
(c) Other works	7,375	5,346	4,657	17,378	10,063
Total, A-VII ..	1,11,838	69,631	86,583	2,68,052	2,26,958

Summary of Receipts and Expenditure during 1909-1910 for each circle and for the Presidency compiled in the Board's office from the Accountant-General's statement—*cont.*

Budget heads.	Northern Circle.	Central Circle.	Southern Circle.	Grand Total, Presidency.	
				1908-1909.	1909-1910.
1	2	3	4	5	6
EXPENDITURE—*cont.*	RS.	RS.	RS.	RS.	RS.
A. Conservancy and Works—cont.					
VIII. Demarcation, improvement and extension of forests—					
(*a*) Demarcation	12,230	7,162	13,202	32,594	34,789
(*b*) Cost of forest settlement, compensation for land and rights	510	4,847	1,08,679	1,14,036	6,767
(*c*) Surveys. (1) Local	8,443	7,044	4,275	19,762	18,343
(*c*) Surveys. (2) India	2,306	3	..	2,309	2,560
(*d*) Working-plans	486	1,273	212	1,971	2,720
(*e*) Sowing and planting	1,34,906	46,014	26,269	2,07,189	1,59,849
(*f*) Protection from fire	60,438	22,235	25,569	1,08,242	98,787
(*g*) Other works	37,832	93,457	40,609	1,71,898	1,57,516
Total, A-VIII ..	2,57,151	1,82,035	2,18,815	6,58,001	4,81,331
IX. Miscellaneous—					
(*a*) Law charges	103	139	27	269	353
(*b*) Other charges	1,205	909	5,368	7,482	9,351
Total, A-IX ..	1,308	1,048	5,395	7,751	9,704
Total, A. Conservancy and Works, inclusive of Refunds	7,38,291	7,33,010	6,30,631	21,01,932	17,89,252
B. Establishments.					
I. Salaries—					
(*a*) Conservators	20,400	23,265	18,000	61,665	61,055
(*b*) Superior officers	1,08,565	1,07,428	1,21,807	3,37,800	3,22,463
(*c*) Subordinate forest and depot establishments	1,42,197	1,45,413	1,14,989	4,02,599	3,73,494
(*d*) Office establishments	55,875	67,780	57,163	1,80,818	1,66,047
(*e*) Deputation and special allowances ..	..	..	..	..	..
(*f*) Exchange compensation allowance ..	4	..	..	4	350
Total, B-I ..	3,27,041	3,43,886	3,11,959	9,82,886	9,23,409
II. Travelling allowances—					
(*a*) Conservators	3,574	2,724	2,455	8,753	8,625
(*b*) Superior officers	21,363	14,022	15,981	51,366	50,661
(*c*) Subordinate forest and depot establishments..	39,027	38,976	30,757	1,08,760	98,600
(*d*) Office establishment	12,197	11,965	9,148	33,310	28,904
Total, B-II ..	76,161	67,687	58,341	2,02,189	1,86,790
III. Contingencies—					
(*a*) Rents, rates and taxes	2,605	3,346	2,826	8,777	6,587
(*b*) Official postage and telegrams ..	12,887	16,075	9,621	38,583	35,646
(*c*) Sundries	18,765	15,922	15,873	50,560	43,674
Total, B-III ..	34,257	35,343	28,320	97,920	85,907
Total, B. Establishments ..	4,37,459	4,46,916	3,98,620	12,82,995	11,96,106
Grand Total, Expenditure ..	11,75,750	11,79,926	10,29,251	33,84,927	29,85,358
Surplus	— 51,765	+ 7,38,694	+ 1,12,347	+ 7,99,276	+ 9,00,938
Total ..	11,23,985	19,18,620	11,41,598	41,84,203	38,86,296

Annual Form No. 81.

Forest Department, Madras Presidency.

Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1909–1910.

District.	Department Debtor.			Department Creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).
1	2	3	4	5	6	7	8	9
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Northern Circle.								
Conservator of Forests, Northern Circle	..	45,948 3 10	45,948 3 10	2,090 2 3	46,280 10 4	48,370 12 7	2,422 8 9	..
Parlákimedi Maliahs ..	..	3,803 5 11	3,803 5 11	130 1 0	3,724 13 2	3,854 14 2	51 8 3	..
Ganjám	..	91,047 13 3	91,047 13 3	2,157 5 7	92,363 8 11	94,520 14 6	3,473 1 3	..
Vizagapatam	..	44,914 0 4	44,914 0 4	955 2 11	45,013 15 1	45,969 2 0	1,055 1 8	..
Gódávari, Upper	..	53,744 9 1	53,744 9 1	3,184 13 5	55,741 0 10	58,925 14 3	5,181 5 2	..
Do. Lower	..	89,336 15 3	89,336 15 3	1,968 10 10	89,207 15 2	91,176 10 0	1,839 10 9	..
Kistna	..	76,929 9 9	76,929 9 9	1,998 8 7	76,241 13 9	78,240 6 4	1,310 12 7	..
Kurnool, West	..	2,64,558 5 2	2,64,558 5 2	6,640 13 11	2,63,385 3 4	2,70,026 1 3	5,467 12 1	..
Do. East	..	2,39,521 3 4	2,39,521 3 4	8,010 14 7	2,37,933 10 7	2,45,944 9 2	6,423 5 10	..
Bellary	..	1,99,795 8 1	1,99,795 8 1	6,884 5 2	1,97,700 5 4	2,04,584 10 6	4,789 2 5	..
Anantapur	..	73,440 13 7	73,440 13 7	1,544 10 9	74,402 11 0	75,947 5 9	2,506 8 2	..
Total ..	..	11,83,040 7 7	11,83,040 7 7	35,565 9 0	11,81,995 11 6	12,17,561 4 6	34,520 12 11	..
Central Circle.								
Conservator of Forests, Central Circle	..	1,096 12 10	1,096 12 10	39 7 10	1,216 2 9	1,255 10 7	158 13 9	..
Guntúr	..	1,03,637 10 8	1,03,637 10 8	1,696 4 3	1,04,893 10 1	1,06,589 14 4	2,952 3 8	..
Nellore	..	1,50,086 13 3	1,50,086 13 3	6,031 2 7	1,49,380 11 10	1,55,411 14 5	5,325 1 2	..
Cuddapah, North	..	95,427 9 7	95,427 9 7	430 10 1	96,847 0 2	97,277 10 3	1,850 0 8	..
Do. South	..	26,965 13 2	26,965 13 2	762 10 10	27,343 0 0	28,105 10 10	1,139 13 8	..
Do. East	..	69,761 7 0	69,761 7 0	1,052 14 7	69,372 13 9	70,425 12 4	664 5 4	..
Chingleput	..	80,329 5 2	80,329 5 2	1,785 3 4	81,396 9 1	83,181 12 5	2,852 7 3	..
Arcot, North	..	1,45,390 9 6	1,45,390 9 6	1,815 14 11	1,46,944 12 1	1,48,760 11 0	3,370 1 6	..
Do. South	..	1,21,764 4 0	1,21,764 4 0	2,104 9 2	1,21,129 0 1	1,23,233 9 3	1,469 5 3	..
Salem, North	..	1,37,276 13 10	1,37,276 13 10	6,740 2 7	1,39,139 5 2	1,45,879 7 9	8,602 9 11	..
Do. South	..	80,239 4 1	80,239 4 1	1,927 0 4	80,390 15 6	82,317 15 10	2,078 11 9	..
Trichinopoly	..	87,118 9 2	87,118 9 2	1,272 14 4	88,649 7 7	89,922 5 11	2,803 12 9	..
Tanjore	..	23,694 3 9	23,694 3 9	810 1 7	24,957 5 7	25,767 7 2	2,073 3 5	..
Total ..	..	11,22,789 4 0	11,22,789 4 0	26,469 0 5	11,31,660 13 8	11,58,129 14 1	35,340 10 1	..
Southern Circle.								
Conservator of Forests, Southern Circle.	..	1,309 13 9	1,309 13 9	127 10 1	1,215 5 6	1,342 15 7	33 1 10	..
The Nilgiris	..	72,670 8 4	72,670 8 4	1,629 11 2	73,622 14 11	75,252 10 1	2,582 1 9	..
North Coimbatore	..	67,268 0 0	67,268 0 0	1,739 9 8	68,502 4 0	70,241 13 8	2,973 13 8	..
Central do.	..	62,658 12 8	62,658 12 8	1,785 11 5	62,333 9 2	64,119 4 7	1,460 7 11	..
South do.	..	79,874 2 8	79,874 2 8	1,541 14 4	82,019 12 2	83,561 10 6	3,687 7 10	..
Kollegal	..	53,408 0 6	53,408 0 6	1,495 9 0	54,708 15 7	56,204 8 7	2,796 8 1	..
Madura	..	1,37,653 7 7	1,37,653 7 7	2,822 5 0	1,38,356 6 6	1,41,178 11 6	3,525 3 11	..
Tinnevelly	..	56,900 5 4	56,900 5 4	1,530 8 3	56,362 15 6	57,893 7 9	993 2 5	..
North Malabar	..	74,687 15 0	74,687 15 0	1,660 10 9	76,197 10 6	77,858 5 3	3,170 6 3	..
South do.	..	1,59,300 4 5	1,59,300 4 5	1,402 3 9	1,58,980 0 7	1,60,382 4 4	1,081 15 11	..
Do. Canara	..	72,600 15 3	72,600 15 3	665 6 10	72,887 8 11	73,552 15 9	952 0 6	..
Total ..	..	8,38,332 5 6	8,38,332 5 6	16,401 4 3	8,45,187 7 4	8,61,588 11 7	23,256 6 1	..
Grand Total ..		31,44,162 1 1	31,44,162 1 1	78,435 13 8	31,58,844 0 6	32,37,279 14 2	93,117 13 1	

Madras,
1st September 1910.

J. F. Graham,
Deputy Accountant-General.

ANNUAL FORM No. 82.

Forest Department, Madras Presidency

REVENUE received and outstandings on account of Revenue during the Forest year 1909–1910.

District.	Particulars.	Outstandings at commencement of the year.	Value of sales and other revenue during the year.	Total.	Amount realized during the year.	Balance due to the department at the end of year.	Remarks.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
Northern Circle.							
Direction	Timber and other forest produce.	..	140 0 0	140 0 0	140 0 0	..	..
Ganjám	Do. do.	1,775 12 0	(*k*) 45,584 4 0	(*l*) 47,360 0 0	(*m*) 47,351 0 0	(*a*)&(*n*) 9 0 0	..
Vizagapatam ..	Do. do.	67 8 0	52,226 12 0	52,294 4 0	52,138 0 0	(*b*) 156 4 0	..
Gódávari, Upper.	Do. do.	282 9 10	68,847 12 7	69,130 6 5	65,703 0 0	(*a*) 3,427 6 5	..
Do. Lower.	Do. do.	549 14 4	1,96,529 7 9	1,97,079 6 1	1,94,902 0 0	(*c*) 2,177 6 1	..
Kistna	Do. do.	2,842 13 0	1,19,230 6 2	1,22,073 3 2	1,16,557 0 0	(*d*) 5,516 3 2	..
Kurnool, East ..	Do. do.	259 6 6	1,02,056 12 5	1,02,316 2 11	1,00,537 0 0	(*a*) 1,779 2 11	..
Do. West ..	Do. do.	2,656 12 0	2,06,148 1 11	2,08,804 13 11	2,08,300 0 0	(*a*) 504 13 11	..
Bellary	Do. do.	81,876 0 0	1,27,427 0 2	2,09,303 0 2	1,75,669 0 0	(*e*) 33,634 0 2	..
Anantapur ..	Do. do.	47,578 5 9	1,18,718 12 6	1,66,297 2 3	1,61,831 0 0	(*f*) 4,466 2 3	..
	Total ..	1,37,889 1 5	10,36,909 5 6	11,74,798 6 11	11,23,128 0 0	51,670 6 11	..
Central Circle.							
Direction ..	Timber and other produce.	..	..	..	..	..	..
Cuddapah, North.	Do. do.	1,441 14 3	1,29,514 3 6	1,30,956 1 9	1,20,302 0 0	10,654 1 9	9,176
Do. East ..	Do. do.	181 6 10	1,18,054 10 0	1,18,236 0 10	1,13,894 0 0	4,342 0 10	1,900
Do. South..	Do. do.	8,975 1 0 *— 1,077 9 4	91,185 1 2	99,082 8 10	90,748 0 0	8,334 8 10	2,414
Nellore	Do. do.	75,916 5 8	2,48,155 15 0	3,24,072 4 8	2,87,468 0 0 (*g*)+ 95 0 7	36,509 4 1	34,471
Chingleput ..	Do. do.	5,996 11 11	71,462 0 7	77,458 12 6	74,420 0 0	3,038 12 6	..
Arcot, North ..	Do. do.	71,798 11 5	2,14,364 6 2	2,86,163 1 7	2,67,107 0 0	19,056 1 7	17,420
Do. South ..	Do. do.	15,645 7 2 * — 64 1 6	2,88,944 13 4	3,04,526 3 0	2,66,469 0 0 (*h*) + 3 4 0	38,053 15 0	31,195
Tanjore ..	Do. do.	752 10 4	25,337 11 2	26,090 5 6	25,545 0 0 (*i*)+ 222 12 5	322 9 1	..
Trichinopoly ..	Do. do.	7,990 3 7	1,48,827 10 6	1,56,817 14 1	1,54,066 0 0	2,751 14 1	204
Salem, North ..	Do. do.	8,491 8 5	1,80,027 9 8	1,88,519 2 1	1,75,785 0 0 (*j*) + 23 4 0	12,710 14 1	8,162
Do. South ..	Do. do.	7,951 0 10	1,33,537 5 0	1,41,488 5 10	1,37,508 0 0	3,980 5 10	..
Guntúr	Do. do.	4,476 14 1 * —56 0 0	2,01,807 0 4	2,06,227 14 5	2,05,308 0 0	919 14 5	..
	Total ..	2,09,617 15 6 — 1,197 10 10	18,51,218 6 5	20,59,638 11 1	19,18,620 0 0 + 344 5 0	1,40,674 6 1	† 1,04,942
Southern Circle.							
Direction	Timber and other forest produce.	..	194 10 1	194 10 1	194 10 1	..	..
Canara, South ..	Do. do.	5,443 0 4 — 178 14 0	1,22,635 0 1	1,27,899 2 5	1,13,833 0 0 ‡ 188 3 1	13,877 15 4	..
Malabar, North ..	Do. do.	4,867 15 7 — 1,757 13 9	65,218 13 8	68,328 15 6	57,326 0 0	11,002 15 6	..
Do. South ..	Do. do.	24,312 13 5 — 34 0 2	1,34,055 14 1	1,58,334 11 4	1,52,512 0 0	5,822 11 4	..
Nilgiris, The ..	Do. do.	5,339 13 3 — 2,775 2 8	66,567 10 8	69,132 5 3	67,650 0 0	1,482 5 3	..
Kollegal	Do. do.	968 5 6 — 10 9 1	43,903 3 7	44,861 0 0	44,278 0 0 ‡ 436 0 0	147 0 0	..
Coimbatore, North.	Do. do.	1,093 11 11 — 54 6 0	1,55,966 6 2	1,57,005 12 1	1,53,122 0 0	3,883 12 1	..
Do. Central.	Do. do.	13,339 11 3 — 251 0 0	90,677 3 10	1,03,765 15 1	82,700 0	21,065 15 1	..
Do. South.	Do. do.	2,363 8 5 — 353 11 5	65,460 5 9	67,470 2 9	60,666 0 0	6,804 2 9	..
Madura	Do. do.	22,921 0 11 — 1,828 8 7	2,56,004 2 5	2,77,096 10 9	2,57,510 0 0	19,586 10 9	..
Tinnevelly ..	Do. do.	25,252 2 2 — 99 8 9	1,54,435 10 11	1,79,588 4 4	1,51,807 0 0 ‡ 1,350 0 0	26,431 4 4	..
	Total ..	1,05,902 2 9 — 7,343 10 5	11,55,119 1 3	12,53,677 9 7	11,43,572 13 2	1,10,104 12 5	..
	Grand Total, Presidency.	4,53,409 3 8 — 8,541 5 3	40,43,246 13 2	44,88,114 11 7	41,85,320 13 2 + 344 5 0	3,02,449 9 5	..

* Collected in previous year but not adjusted towards outstanding of last year.

† Due after 30th June 1910, being outstanding amount relating to leases.

‡ Written off the accounts.

NOTE (*Northern Circle*).— Excludes Rs. 857, relating to Parlákimedi Maliahs.

(*a*) Due during the year. (*b*) Of this Rs. 78–12–0 were collected during July 1910. (*c*) Rs. 2,166 were collected during July 1910.
(*d*) Of this Rs. 5,045 fell due in 1910–1911 and 471 was written off. (*e*) Of this Rs. 30,960 falls due in 1910–1911. (*f*) Full amount due in 1910–1911.
(*g*) Written off in Board's Proceedings, Mis. No. 1358, dated 7th December 1909.
(*h*) Do. in Conservator's S.O. No. 170, dated 2nd April 1910.
(*i*) Do. in Board's Proceedings, Mis. No. 1017, dated 20th September 1909.
(*j*) Do. in Conservator's S.O. No. 110, dated 12th June 1910.
(*k*) Excludes Rs. 969–13–1 being value of sales and other revenue during the year in the Parlakimedi maliahs.
(*l*) Excludes Rs. 1,474–13–1 being the total value of sales, etc., in the Parlakimedi maliahs.
(*m*) Do. realized in the Parlakimedi maliahs.
(*n*) Excludes Rs. 505, being balance due to the department at the end of the year in the Parlakimedi maliahs.

NOTE (*Southern Circle*).—Deductions in column 3 are on account of cancellation of leases, erroneous demands and collections in the previous year omitted to be adjusted towards outstandings. Out of the total outstandings of Rs. 1,10,104–12–5, the amount actually due on or before 30th June 1910 was Rs. 26,279.

ANNUAL FORM No. 83.

Forest Department, Madras Presidency.

FINANCIAL results of the year 1909–1910.

District.	Timber and other produce removed from the forest by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
Northern Circle.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjám	16,346	25,884	31,007	38,869	38,433	47,353	1,03,186
Parlákimedi Maliahs (Ganjám).	587	1,048	270	5,746	5,593	857	12,387
Vizagapatam	25,705	12,926	26,435	33,993	14,364	52,140	61,283
Upper Gódávari ..	18,871	13,167	46,834	29,030	25,413	65,705	67,610
Lower Do. ..	40,101	21,142	1,54,804	52,068	32,874	1,94,905	1,06,084
Kistna	48,722	29,978	67,837	22,860	39,009	1,16,559	91,847
Kurnool, East ..	47,642	61,775	52,898	61,211	72,944	1,00,540	1,95,930
Do. West ..	1,12,047	79,493	96,257	63,053	93,805	2,08,304	2,36,351
Bellary	19,264	25,792	1,56,525	61,349	1,24,156	1,75,789	2,11,297
Anantapur	22,230	15,031	1,39,603	34,399	31,017	1,61,833	80,447
Total ..	3,51,515	2,86,236	7,72,470	4,02,578	4,77,608	*11,23,985	11,66,422 + † 9,328
Central Circle.							
Cuddapah, North ..	58,439	37,568	61,863	23,343	18,602	1,20,302	79,513
Do. East ..	63,407	42,099	50,487	28,654	19,930	1,13,894	90,683
Do. South ..	4,602	5,687	86,146	19,440	11,849	90,748	36,976
Nellore	1,22,825	92,289	1,64,643	26,026	50,079	2,87,468	1,68,394
Chingleput	26,315	16,130	48,105	18,327	25,851	74,420	60,308
Arcot, North	90,786	43,454	1,76,321	45,425	51,606	2,67,107	1,40,485
Do. South	99,931	28,909	1,66,538	30,631	46,282	2,66,469	1,05,822
Salem, North	65,030	61,339	1,10,755	37,322	50,388	1,75,785	1,49,049
Do. South	27,884	34,179	1,09,624	27,194	27,463	1,37,508	88,836
Trichinopoly	54,607	46,414	99,459	24,163	28,345	1,54,066	98,922
Tanjore	9,972	7.921	15,573	5,886	5,975	25,545	19,782
Guntúr	62,903	38,193	1,42,405	35,560	51,548	2,05,308	1,25,301
Total ..	6,86,701	4,54,182	12,31,919	3,21,971	3,87,918	19,18,620	11,64,071 + † 15,855
Southern Circle.							
South Canara	52,862	34,237	60,990	33,787	17,953	1,13,852	85,977
North Malabar ..	17,912	19,382	39,433	58,610	26,664	57.345	1,04,656
South do.	1,41,367	34.669	11,165	2,084	1,41,894	1,52,532	1,78,647
The Nilgiris	45,808	56,280	21,862	15,610	31,117	67,670	1,03,007
Kollegal	13,116	21,986	31,182	12,131	15,803	44,298	49,920
North Coimbatore ..	88,028	41,581	65,114	28,549	25,084	1,53,142	95,214
Central do. ..	27,658	25,827	55,061	22,737	21,589	82,719	70,153
South do. ..	30,425	59,730	30,260	17,647	27,901	60,685	1,05,278
Madura	82,585	65,558	1,74,944	38,002	57,243	2,57,529	1,60,803
Tinnevelly	541	1,769	1,51,285	43,968	29,859	1,51,826	75,596
Total ..	5,00,302	3,61,019	6,41,296	2,73,125	3,95,107	11,41,598	(a) 10,29,251
Grand Total ..	15,38,518	11,01,437	26,45,685	9,97,674	12,60,633	41,84,203	33,59,744 + † 25,183

* This includes Rs. 140 shown under Direction in Form No. 80, of which Rs. 116 belongs to Bellary and Rs. 24 to Direction. The latter was distributed to all districts proportionately.

† Refunds and drawbacks.

(a) Includes refunds and drawbacks.

Annual Form No. 84.

Forest Department, Madras Presidency.

Statement of Elephants during 1909–1910.

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6

Northern Circle.

Part I.—*Elephants in possession of the reporting officers throughout the year.*

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
			YRS.	RS. A. P.	
Ganjám	Mahabat Pyari ..	May 1906	Not known.	752 5 3	
Vizagapatam ..	Ethel	Transferred from Southern Circle on 3rd December 1897.	51	968 4 4	
Upper Gódávari Division.	Surat Pyari ..	Purchased in November 1894 at Sonepur fair.	Not known.	922 7 10	
West Kurnool ..	Byragi Pyari ..	Do. do.	Do.	838 4 9	

Part II.—*Elephants received in the year*—Nil.

Part III.—*Elephants gone off the list during the year*—Nil.

Central Circle—*Nil.*

Southern Circle.

Part I.—*Elephants in possession of the Reporting officers throughout the year.*

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
			YRS.	RS. A. P.	
Malabar, North ..	1. Peri	Captured in April 1889	65	895 13 3	
	2. Sivaji ..	Do. February 1900 ..	40	872 10 7	
	3. Isabella ..	Do. do. 1898 ..	45	819 9 1	
	4. Phyllis ..	Purchased in January 1878 ..	65	850 2 0	
	5. Jhelum ..	Captured in June 1902	17	605 12 5	
	6. Kalyani ..	Purchased in October 1889 ..	70	789 15 0	
	7. Dosti-Jehan ..	Born to Meenakshi in February 1902.	8	516 14 4	
	8. Port Arthur ..	Captured in February 1905 ..	9	400 3 1	
	9. Togo	Do. on 19th June 1905 ..	8	469 8 1	
	10. Kuroki ..	Do. on 19th February 1905.	13	531 9 5	
	11. Agnes	Do. on 11th March 1906 ..	30	702 9 3	
	12. Hanuman ..	Do. on 21st February 1905.	18	631 7 5	
	13. Nethravathi ..	Do. do. ..	15	547 4 10	
	14. Norah ..	Do. on 11th March 1906 ..	8	479 13 2	
	15. Hector ..	Do. on 13th April 1906 ..	11	470 0 2	
	16. Helen	Do. on 12th do. ..	25	738 2 1	
	17. Borneo ..	Born to Peri on 20th January 1905	5	360 0 11	
	18. Ranger ..	Captured on 17th March 1906 ..	17	648 7 0	
	19. Marce ..	Do. on 20th do. ..	12	535 13 9	
	20. Forester ..	Do. on 15th do. ..	11	389 14 6	
	21. Hyder Ali ..	Do. on 12th May 1906 ..	10	395 0 8	
	22. Madhavan ..	Do. do. ..	9	378 3 1	
	23. Abdul Rahiman.	Do. on 7th April 1900 ..	30	736 11 0	
	24. Emily	Do. on 23rd June 1899 ..	40	767 1 4	
	25. Meenakshi ..	Born to Chikka Lakshmi in April 1889.	21	745 4 10	
	26. Bessie	Born to Chikka Lakshmi on 3rd July 1899	11	590 8 8	
	27. Jessie	Born to Chikka Lakshmi on 21st October 1903.	7	468 11 8	
	28. Reggie ..	Captured on 11th April 1907 ..	6	250 5 3	
	29. Lassie	Do. on 19th do. ..	10	507 3 11	
	30. Hilda	Do. on 20th do. ..	24	701 9 9	
	31. Shanker ..	Do. on 21st May 1907 ..	10	443 9 11	
	32. Ganga	Do. on 30th do. ..	6	266 7 11	
	33. Elsie	Do. on 31st do. ..	24	714 0 2	
	34. Etona	Do. on 4th June 1907 ..	11	511 14 2	
	35. Janaki	Do. on 12th do. ..	7	263 7 7	
	36. Nelly	Born to Isabella on 22nd July 1907.	3	240 10 0	
	37. Rohini	Born to Meenakshi on 30th January 1908.	2	110 2 8	
	38. Kali	Captured on 27th June 1908 ..	9	404 13 0	
	39. Kapila	Do. on 29th do. ..	27	755 4 0	
	40. Joe	Do. on 11th January 1909 ..	11	472 4 0	
	41. Emperor ..	Do. on 5th March 1909 ..	13	602 9 1	
	42. Libera ..	Do. do. ..	16	548 3 8	

Statement of Elephants during 1909–1910—*cont.*

SOUTHERN CIRCLE—*cont.*

PART I.—*Elephants in possession of the Reporting officer throughout the year*—cont.

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6
			YRS.	RS. A. P.	
Malabar, South..	1. Vixen	Purchased in 1878	48	834 8 0	
	2. Peyru	Transferred from Wynaad in 1882.	66	892 15 1	Original purchase or capture not traceable.
	3. Maharajan ..	Captured in April 1886	36	798 9 3	
	4. Jupiter ..	Do. in January 1887.. ..	30	828 10 1	
	5. Gordon ..	Do. in February 1889 ..	30	787 0 2	
	6. Lydia	Purchased from the Military Department in April 1903.	48	838 12 6	
	7. Nurmahal ..	Captured on 25th February 1898.	22	616 3 5	
	8. Meenakshi II..	Do. on 13th August 1904 ..	10	423 10 5	
	9. Kitty.. ..	Do. on 30th September 1903.	11	645 10 11	
	10. Loo	Do. in April 1890	23	600 8 8	
	11. George ..	Do. on 17th February 1906.	12	611 0 11	
	12. Dorothy ..	Do. on 19th March 1906 ..	9	374 1 6	
	13. Frank	Do. on 18th October 1906 ..	21	671 8 11	
	14. Donald.. ..	Do. on 27th January 1907 ..	12	377 3 0	
	15. Sirdar	Do. on 7th August 1906 ..	14	634 12 1	
	16. Doddanmeri ..	Do. on 11th October 1906 ..	8	302 10 8	
	17. Kuttiparu ..	Do. on 25th August 1907 ..	16	575 6 10	
	18. Loulie	Do. on 25th July 1907 ..	10	462 10 10	
	19. Savi . ..	Do. on 5th August 1907 ..	9	402 10 11	
	20. Kesavan ..	Do. on 11th February 1905.	19	673 14 3	
	21. Seetha	Do. on 13th September 1895.	23	740 10 0	
	22. Sutlej	Do. on 27th February 1902.	23	837 4 10	
The Nilgiris ..	1. Chikka Lakshmi.	Transferred from the Anamalais on 30th January 1882.	63	747 2 8	Original purchase or capture not traceable.
	2. Ravi	Captured on 3rd March 1902 ..	24	725 3 7	
	3. Jempyaree ..	Purchased from the Military Department in March 1903.	35	754 11 10	
Coimbatore, South.	1. Lala Meah ..	Captured on 9th March 1891 ..	29	845 0 0	
	2. Akbar Baksh ..	Born on 22nd February 1888 ..	22	622 8 6	
	3. Zehara ..	Captured on 14th March 1896 ..	26	780 5 4	
	4. Kunjunni ..	Do. on 16th March 1897 ..	19	642 4 11	
	5. Bakhto ..	Do. on 6th April 1900 ..	20	669 0 3	
	6. Eva	Do. in 1884	35	583 0 11	
	7. Hercules ..	Do. in December 1890 ..	30	614 15 1	
	8. Bob ..	Do. on 14th August 1904 ..	19	595 14 6	Ages reestimated.
	9. Phyllis II ..	Do. on 12th August 1904 ..	13	546 7 6	Ages reestimated.
	10. Marudu ..	Do. on 14th August 1904 ..	16	530 7 8	Ages reestimated.
	11. Juno	Do. in February 1886 ..	32	654 10 9	

Statement of Elephants during 1909–1910—*cont.*

District.	Names.	When purchased or otherwise obtained by Government.	Age.	Cost of keep, including servants and food.	Remarks.
1	2	3	4	5	6
		SOUTHERN CIRCLE—*cont.*			
		PART II.—*Elephants received in the year.*			
			YRS.	RS. A. P.	
Malabar, North.	1. Sultan	Captured on 11th January 1910.	2	80 4 3	
	2. Czarina	Captured on 30th January 1910.	28	124 2 11	
	3. Rutna	Do. do.	2½	72 8 5	
	4. Rani I	Do. do.	20	..	
	5. Tippu	Captured on 1st February 1910.	12	124 2 2	
	6. Nurjehan	Captured on 12th February 1910.	65	110 15 9	
	7. Cæsar	Do. do.	7	120 4 6	
	8. Empress	Captured on 19th February 1910.	22	105 13 4	
	9. Victoria	Born to Czarina on 7th February 1910.	..	..	
	10. Rani II	Captured on 18th April 1910.	20	52 12 6	
	11. Countess	Do. on 5th June 1910 ..	20	15 9 7	
	12. Venus	Do. do. ..	1½	9 2 8	
	13. Queen	Do. do. ..	½	9 2 8	
	14. Moideenkhan ..	Captured on 3rd January 1896.	31	327 5 3	
	15. Padmini	Captured on 10th February 1896.	41	317 6 6	
	16. Chamundi	Captured on 4th February 1900.	25	323 15 3	
	17. Samson	Purchased in 1885 for Rs. 350.	38	371 5 1	
	18. Theebaw	Captured in January 1886 ..	26	253 8 10 + 25 14 5*	* Lent to the District Forest Officer, the Nilgiris, from 1st April 1910 to 25th April 1910 for elephant-capturing operations.
Malabar, South.	1. Tajmahal	Captured on 26th January 1910.	19	153 8 6	
Coimbatore, South.	1. Claudia	Captured on 22nd November 1909.	3	175 9 4	
		PART III.—*Elephants gone off the list during the year.*			
Malabar, North.	1. Charlie	Captured on 11th March 1906.	7	69 13 9	Sold on 19th September 1909.
	2. Morris	Do. do.	8	69 15 7	Do. do.
	3. Henry	Do. on 13th March 1906.	8	103 12 2	Do. do.
	4. Ruby	Do. on 21st February 1906.	6	70 5 11	Do. do.
	5. John	Captured on 28th April 1907 ..	10	59 0 2	Sold in September 1909.
	6. Rani I	Captured on 30th January 1910.	20	..	Died on 12th March 1910.
	7. Victoria	Born to Czarina on 7th February 1910.	..	..	Died on 22nd February 1910.
Malabar, South.	1. Samson	Purchased from Mr. Morgan in 1885.	38	394 2 6	Transferred to North Malabar on 22nd November 1909.
	2. Theebaw	Captured in January 1886 ..	26	375 3 9	
	3. Bhagavathi	Captured in June 1904 ..	13	395 13 0	Shot accidentally on 9th November 1909.
The Nilgiris.	1. Mohidinkhan.. ..	Captured on 3rd January 1896.	31	402 15 5	Transferred to North Malabar on 11th December 1909.
	2. Padmini	Captured on 10th February 1896.	41	390 3 2	
	3. Chamundi	Captured on 4th February 1900.	25	364 5 4	
Coimbatore, South.	1. Parvathi	Purchased in 1888	68	319 15 7	Presented to the Madras Corporation on 12th January 1910.

ANNUAL

Forest Department,

ABSTRACT showing the Value of Live-stock,

Districts.	Survey, etc., instruments.				Tools			
	On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
1	2	3	4	5	6	7	8	9
Northern Circle.		RS.		RS.		RS.		RS.
Direction	62	447	62	413	428	461	428	333
Ganjám	89	786	(b) 105	(b) 753	659	464	(c) 1,100	(c) 1,962
Vizagapatam	38	460	38	445	605	202	571	134
Gódávari, Upper	43	458	42	456	939	1,415	1,076	2,325
Do. Lower	91	875	103	892	802	2,641	848	2,778
Kistna	55	801	68	837	265	2,207	320	2,128
Kurnool, East	117	939	142	1,596	1,858	2,147	2,905	2,842
Do. West	117	633	125	600	1,529	1,477	1,684	1,497
Bellary	62	1,172	92	1,568	*1,077	*1,709	1,448	1,981
Anantapur	86	2,093	256	2,543	643	850	793	909
Total ..	760	8,664	1,033	10,103	8,805	13,573	11,173	16,889
Central Circle.								
Direction	56	900	56	870	6	6	6	6
Cuddapah, North	43	251	76	1,108	279	1,372	64	92
Do. East	97	534	104	450	284	963	322	841
Do. South	18	156	18	133	157	412	169	500
Nellore	124	905	182	1,122	1,247	5,841	1,328 lb. 48	5,765
Chingleput	48	367	48	367	859	4,714	878	4,184
North Arcot	178	1,078	177	1,053	2,371 cwt. 33	5,968	2,430 cwt. 33	6,143
South do.	88	514	90	454	115	536	250	784
North Salem	130	1,001	132	833	1,680	4,172	1,692	3,868
South do.	102	816	97	753	1,130	1,783	942	1,713
Trichinopoly	100	984	106	1,112	756	379	752	457
Tanjore	29	107	29	104	162	1,552	144	1,533
Guntúr	114	2,336	121	2,267	373	464	551	932
Total ..	1,127	9,949	1,236	10,626	9,419 cwt. 33	28,162	9,528 lb. 48 cwt. 33	26,818
Southern Circle.								
Direction	67	1,661	67	1,661	27	137	27	137
South Canara	209	510	211	494	431 (a) — 50	710 — 519	377	148
Malabar, North	66	485	67	649	4,058	4,993	2,023	5,334
Do. South	54	579	55	557	431	242	409	273
The Nilgiris	105	1,070	77	1,107	532	1,509	534	1,290
Kollegal	21	363	25	469	385	2,217	463	2,369
Coimbatore, North	56	756	65	795	1,100	3,244	1,045	3,777
Do. Central	45	578	57	577	11,018	3,627	7,289	2,553
Do. South	72	930	80	1,018	1,872	6,370	1,483	2,312
Madura	125	1,293	130	1,316	825	490	1,059	842
Tinnevelly	118	727	108	693	514	522	460	371
Training School	94	666	94	633	136	154	136	146
Total ..	1,032	9,618	1,036	9,969	21,279	23,696	15,305	19,552
	2,919	28,231	3,305	30,698	39,503 Cwt. 33	65,431	36,006 Lb. 48 Cwt. 33	63,259

* As revised

(a) The difference is due to reclassification made by the Collector.
(b) Excludes 8 items pertaining to the Parlákimedi maliahs of the value of Rs. 100-2-0.
(c) Excludes 36 items pertaining to the Parlákimedi maliahs of the value of Rs. 41-4-0.

FORM No. 85.

Madras Presidency.

Stores, Tools and Plant for 1909–1910.

Machinery.				Furniture.				Building materials, small stores, tents, boats, etc.			
On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
10	11	12	13	14	15	16	17	18	19	20	21
	RS.		RS.		RS.		RS.		RS.		RS.
..	..	2	410	163	880	175	874	19	707	18	646
..	..	..	..	424	2,095	(d) 536	(d) 3,401	..	..	(e) ..	(e) ..
..	..	..	..	245	835	286	872	108	1,566	120	1,047
..	..	..	..	270	1,165	398	1,381	10	900	10	1,055
2	4,600	2	4,600	649	2,517	707	2,747	26	1,658	28	2,346
..	..	..	..	192	663	224	805	3	1,039	3	987
23	673	22	800	251	960	290	1,830	16	1,579	29	2,414
21	2,049	21	1,930	2,204	2,537	2,208	2,365	35	1,427	26	1,232
3	844	4	791	*83	* 472	187	1,526	6	*150	14	1,069
..	..	..	..	431	1,928	465	1,980	5	710	9	693
49	8,166	51	8,531	4,912	14,052	5,476	17,781	228	9,736	257	11,489
..	..	..	..	161	592	161	570	12	908	12	830
..	..	269	2,213	127	809	212	1,297	10	929	15	1,323
2	54	3	70	201	1,073	218	1,135	10	716	16	1,137
..	..	..	..	113	738	125	824	7	660	10	881
11,056 M. F. C. L. 13 2 7 55	30,417	15,696 M. F. C. L. 13 2 7 55	33,439	327	1,821	348	1,713	11	810	10	565
..	..	..	..	330	1,312	337	1,324	9	800	9	800
26	385	26	385	886	2,520	893	2,572	17	1,739	17	1,739
26	1,638	28	2,363	270	1,300	352	1,719	17	1,126	19	1,234
..	..	5	760	362	1,907	459	2,453	393	1,275	408	1,479
16	2,239	16	2,100	443	2,501	447	2,537	19	1,832	16	1,759
..	..	..	..	377	1,615	381	1,692	15	779	15	696
..	..	..	..	132	568	135	583	2	200	2	190
..	..	..	..	309	1,924	321	1,788	9	3,516	9	3,763
11,126 M.F. C. L. 13 2 7 55	34,733	16,043 M. F. C. L. 13 2 7 55	41,330	4,038	18,680	4,389	20,207	531	15,290	558	16,396
3	1,016	3	972	257	1,660	258	1,789	9	530	9	504
.. (a) + 19	.. 3,018	19	2,717	341	1,522	344	1,497	14	921	15	1,004
..	..	..	..	196	663	236	1,083	4	294	4	284
1	15	1	15	175	1,185	186	1,217	4	128	3	113
5	795	6	1,493	358	2,446	323	2,943	7	720	7	640
..	..	..	..	105	534	136	908	28	596	32	1,275
..	..	2	418	279	1,165	312	1,491	88	1,746	112	2,065
..	..	..	..	212	752	244	700	7	654	8	670
12,776	16,333	13,109	16,819	374	1,548	369	2,207	9	749	10	940
9	743	13	736	630	2,255	779	2,552	1,305	1,621	1,216	1,630
..	..	..	..	351 (b) + 1	1,165	345	913	12	707	12	623
..	.	..	..	71	551	71	523	12	1,348	12	1,281
12,813	21,920	13,153	23,170	3,350	15,446	3,603	17,823	1,499	10,014	1,440	11,029
23,988	64,819	29,247 M.F.C.L. 13 2 7 55	73,031	12,300	48,178	13,468	55,811	2,258	35,040	2,255	38,914

by the Collector.

(*a*) Added to opening balance by the Collector.
(*d*) Excludes 31 items pertaining to the Parlákimedi maliahs of the value of Rs. 123-2-0.
(*e*) Excludes 6 tents and 107 uniforms pertaining to the Parlákimedi maliahs of the value of Rs. 575 and 80 respectively.

Abstract showing the Value of Live-stock,

Districts.	Buildings				Live-stock			
	On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
	22	23	24	25	26	27	28	29
Northern Circle—cont.		RS.		RS.		RS.		RS.
Direction	..	..	..	..	2	90	2	80
Ganjám	62	22,733	73	32,278	..	..	4	67
Vizagapatam	54	5,992	57	7,159	1	Not known.	1	Not known
Gódávari, Upper	69	26,765	69	25,956	1	900	1	900
Do. Lower	114	20,568	135	27,331	..	..	..	..
Kistna	51	6,707	51	6,051	..	..	..	..
Kurnool, East	21	15,954	32	21,239	22	1,220	20	400
Do. West	89	56,764	87	46,772	1	1,600	1	1,600
Bellary	* 35	* 19,312	43	23,669	65	* 870	46	529
Anantapur	30	34,123	31	32,123	..	..	..	..
Total ..	525	2,08,918	578	2,22,578	92	4,680	75	3,576
Central Circle—cont.								
Direction	..	..	..	..	..	..	..	..
Cuddapah, North	48	3,687	53	10,339	..	..	..	..
Do. East	63	12,458	69	13,137	8	355	10	587
Do. South	16	5,041	15	4,503	2	40	2	35
Nellore	17	16,590	19	18,599	..	..	..	..
Chingleput	61	9,656	61	10,216	..	..	..	..
North Arcot	97	31,323	97	32,056	14	566	13	542
South do.	51	19,971	65	26,569	10	666	6	480
North Salem	43	19,580	50	20,450	28	1,100	66	3,300
South do.	33	12,600	53	19,527	..	..	..	..
Trichinopoly	17	2,666	17	2,568	..	..	..	..
Tanjore	7	381	8	2,381	..	..	..	..
Guntúr	59	8,844	62	8,507	..	..	..	..
Total ..	512	1,42,797	569	1,68,852	62	2,727	97	4,944
Southern Circle—cont.								
Direction	1	101	1	96	..	..	..	..
South Canara	57	24,022	57	25,377	64	2,908 (b) + 915	59	3,348
Malabar, North	59	24,866	62	36,627	112	76,044	130	1,07,079
Do. South	44	40,204	44	40,500	45	39,541	57	33,562
The Nilgiris	73	19,866	75	26,113	46	11,080	28	4,999
Kollegal	20	6,251	22	8,028	48	3,360	12	840
Coimbatore, North	53	24,031	54	28,406	..	..	..	..
Do. Central	47	9,514	41	9,519	..	..	..	..
Do. South	52	17,944	56	19,604	48	33,315	59	35,900
Madura	87	50,502	94	55,846	8	452	8	464
Tinnevelly	73	36,028	74	39,079	..	..	..	..
Training School	..	..	..	..	..	..	..	..
Total ..	566	2,53,329	580	2,89,195	371	1,67,615	353	1,86,192
Grand Total ..	1,603	6,05,044	1,727	6,80,625	525	1,75,022	525	1,94,712

* As revised

(a) The differences are due to reclassification made by the Collector.

Stores, Tools and Plant for 1909-1910—*cont.*

Miscellaneous.				Total.					
On hand at the commencement of the year.		On hand at the close of the year.		On hand at the commencement of the year.		On hand at the close of the year.		Difference in value.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
30	31	32	33	34	35	36	37	38	39
	RS.		RS.		RS.		RS.	RS.	RS.
9	53	8	48	683	2,638	695	2,804	166	..
..	..	..	..	1,234	26,078	1,818	38,461	12,383	..
313	333	281	264	1,364	9,388	1,354	9,921	533	..
196	2,129	213	5,942	1,528	33,732	1,809	38,015	4,283	..
490	42,132	616	45,223	2,174	74,991	2,439	85,917	10,926	..
8	2,909	8	2,588	574	14,326	674	13,396	..	930
1,513	93	655	1,470	3,821	23,565	4,095	32,591	9,026	..
644	2,869	630	2,746	4,640	69,356	4,782	58,742	.	10,614
..	..	..	..	1,331	24,529	1,834	31,133	6,604	..
..	..	..	..	1,195	39,704	1,554	38,248	..	1,456
3,173	50,518	2,411	58,281	18,544	3,18,307	21,054	3,49,228	30,921	..
605	621	556	659	840	3,027	791	2,935	..	92
213	322	812	577	720	7,370	1,501	16,949	9,579	..
212	484	198	363	877	16,637	940	17,720	1,083	..
110	377	105	342	423	7,424	444	7,218	..	206
670	5,600	733	5,371	13,452 M. F. C. L. 13 2 7 55	61,984	18,316 M. F. C. L. 13 2 7 55 lb. 48	66,574	4,590	..
..	..	..	..	1,307	16,849	1,333	16,891	42	..
..	..	9	9	3,589 cwt. 33	43,579	3,662 cwt. 33	44,499	920	..
1,148	976	1,115	1,215	1,725	26,727	1,925	34,818	8,091	..
933	602	952	642	3,569	29,637	3,764	33,785	4,148	..
† 1,124	411	1,062	373	2,867	22,182	2,633	28,762	6,580	..
1,532	7,326	1,534	7,785	2,797	13,749	2,805	14,310	561	..
244	195	242	176	576	3,003	560	4,967	1,964	..
..	..	..	..	864	17,084	1,064	17,257	173	..
6,791	16,914	7,318	17,512	33,606 M. F. C. L. 13 2 7 55 cwt. 33	2,69,252	39,738 M. F. C. L. 13 2 7 55 lb. 48 cwt. 33	3,06,685	37,433	..
834	1,273	1,285	1,865	1,198	6,378	1,650	7,024	646	..
702 (*a*)+31	8,683 — 2,499	748	5,832	1,818	39,276 + 915	1,830	40,417	226	..
35	2 713	35	3,074	4,530	1,10,058	2,557	1,54,130	44,072	..
576	2,999	438	2,558	1,330	84,893	1,193	78,795	.	6,098
112	789	132	663	1,238	38,275	1,182	39,248	973	..
649	1,340	636	647	1,256	14,661	1,326	14,536	.	125
885	727	875	687	2,461	31,669	2,465	37,639	5,970	..
118	126	569	728	11,447	15,251	8,208	14,747	..	504
515	3,773	967	8,164	15,718	80,962	16,133	86,964	6,002	..
4	184	4	125	2,993	57,540	3,303	63,511	5,971	..
538	1,120	606	1,275	1,606 + 1	40,269	1,605	42,954	2,685	.
37	37	37	35	350	2,756	350	2,618	..	138
5,036	21,265	6,332	25,653	45,946	5,22,903	41,802	5,82,583	59,680	..
15,000	88,697	16,061	1,01,446	98,096 M. F. C. L. 13 2 7 55 cwt. 33	11,10,462	102,594 M. F. C. L. 13 2 7 55 lb. 48 cwt. 33	12,38,496	1,28,034	..

by the Collector.

(*b*) Added to opening balance by the Collector.
† Not shown in the previous return by the Collector.

ANNUAL FORM No. 86.

Forest Department, Madras Presidency, Northern Circle.

Tramway statement.

Lower Gódávari District.

Capital Account, 1908–1909.

Dr.	RS. A. P.	Cr.	RS. A. P.
To balance from 1907–1908	3,877 0 0	By depreciation at 6 per cent.	233 0 0
		,, balance of stock	3,644 0 0
Total ..	3,877 0 0	Total ..	3,877 0 0

Revenue Account, 1908–1909.

Dr.	RS. A. P.	Cr.	RS. A. P.
To repairs of tram lines	92 0 0	By balance written off	480 0 0
,, interest at 4 per cent.	155 0 0		
,, depreciation at 6 per cent.	233 0 0		
Total ..	480 0 0	Total ..	480 0 0

Profit and loss statement.

Work done.

Nil.

	RS. A. P.
Actual charges on account of the maintenance of the tramway	480 0 0
Estimated cost, etc.	..
Loss ..	480 0 0

Capital Account, 1909–1910.

	RS. A. P.		RS. A. P.
To balance from 1908–1909	3,644 0 0	By depreciation at 6 per cent.	219 0 0
		,, balance of stock	3,425 0 0
Total ..	3,644 0 0	Total ..	3,644 0 0

Revenue Account, 1909–1910.

	RS. A. P.		RS. A. P.
Interest at 4 per cent.	146 0 0	By balance written off	365 0 0
Depreciation at 6 per cent.	219 0 0		
Total ..	365 0 0	Total ..	365 0 0

Profit and loss statement.

Work done.

Nil.

	RS. A. P.
Actual charges on account of the maintenance of the tramway	365 0 0
Estimated cost, etc.	..
Loss ..	365 0 0

Year.	Profit. RS.	Loss. RS.
1905–1906	464	..
1906–1907	506	..
1907–1908	..	317
1908–1909	..	480
1909–1910	..	365
Total ..	970	1,162
Net loss ..	..	192

Tramway Statement.

Nellore District, Srîharikôta Range.

Capital Account, 1909–1910.

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from previous years.	14,822	14,378	By depreciation at 6 per cent.	918	1,079
Add new stock	474	7	,, balance of stock	14,378	16,899
Omitted to be shown in the last year's district return.	..	3,593			
Total ..	15,296	17,978	Total ..	15,296	17,978

Revenue Account, 1909–1910

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	1,444	1,678	By balance written off ..	3,392	3,996
,, road-making and repairs ..	311	432			
,, interest at 4 per cent. ..	612	719			
,, depreciation at 6 per cent. ..	918	1,079			
,, repairs to wagons	107	88			
Total ..	3,392	3,996	Total ..	3,392	3,996

—	1908–1909.					1909–1910.				
	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done	6,109⅛	3	18,327⅜	3,392	0 3 0	2,931⅜ 602 4,005	4 4½ 1	11,725½ 2,709 4,005	3,996	0 3 6
						7,538⅜	..	18,439½		

—	1908–1909.			1909–1910.		
	Number of ton-miles.	Amount.	Rate per ton-mile.	Number of ton-miles.	Amount.	Rate per ton-mile.
		RS.	RS. A. P.		RS.	RS. A. P.
Actual charge of carrying	18,327⅛	3,392	0 3 0	18,439½	3,996	0 3 6
Estimated charges by coolies.. ..		24,054	1 5 0		24,202	1 5 0

	RS.
Net profit up to the end of 1908–1909	3,96,413
Add profit for 1909–1910	20,206
Total ..	4,16,619

Tramway Statement—*cont.*

Nellore District, Coast Range.

Capital Account, 1909–1910.

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To balance from previous years ..	13,926	13,223	By depreciation at 6 per cent. ..	844	1,302
Add new stock	140	4,887	,, balance of stock	13,222	20,401
Omitted to be shown in the last year's district return.	..	3,593			
Total ..	14,066	21,703	Total ..	14,066	21,703

Revenue Account, 1909–1910.

—	1908–1909.	1909–1910.	—	1908–1909.	1909–1910.
Dr.	RS.	RS.	*Cr.*	RS.	RS.
To working expenses	452	194	By balance written off	2,103	2,617
,, road-making	225	249			
,, interest at 4 per cent.	563	868			
,, depreciation at 6 per cent. ..	844	1,302			
,, repairs to wagons	19	4			
Total ..	2,103	2,617	Total ..	2,103	2,617

—	1908–1909.					1909–1910.				
	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.	Number of tons of wood carried.	Number of miles carried.	Total ton-miles.	Actual charge for carrying.	Rate per ton-mile.
				RS.	RS. A. P.				RS.	RS. A. P.
Work done. Dugarazpatam ..	4,416	$1\frac{1}{2}$	6,624	2,103	0 1 8	936	$\frac{6}{8}$	702	2,617	0 2 2
Work done. Kottapatam ..	1,610	$2\frac{1}{2}$	4,025			6,177	$2\frac{5}{8}$	$16,214\frac{5}{8}$		
Work done. Kottapatam Reserved Forest.	..	..	..			492	$1\frac{3}{8}$	$676\frac{1}{2}$		
Work done. Tamminapatam ..	3,640	$1\frac{1}{4}$	4,550			527	$1\frac{4}{8}$	$790\frac{1}{2}$		
Work done. Varini	2,317	2	4,634			906	$\frac{6}{8}$	$679\frac{1}{2}$		
	11,983	..	19,833			9,038	..	$19,063\frac{1}{8}$		

—	1908–1909.			1909–1910.		
	Number of ton-miles.	Amount.	Rate per ton-mile.	Number of ton-miles.	Amount.	Rate per ton-mile.
		RS.	RS. A. P.		RS.	RS. A. P.
Actual charge for carrying	19,833	2,103	0 1 8	$19,063\frac{1}{8}$	2,617	0 2 2
Estimated charges by coolies ..		26,031	1 5 0		25,020	1 5 0

	RS.
Net profit up to the end of 1908–1909	2,64,834
Add for 1909–1910	22,403
Net profit ..	2,87,237

Forest Department, Madras Presidency, Southern Circle.

Tramway Statement.

South Coimbatore District.

Capital Account, 1908–1909.

Dr.	RS.	A.	P.	*Cr.*	RS.	A.	P.
To balance brought forward from 1907–1908.	35,372	7	4	By depreciation at 6 per cent.	2,122	5	1
,, repairs to tram trucks	267	6	9	,, balance stock	33,517	9	0
Total ..	35,639	14	1	Total ..	35,639	14	1

Revenue Account, 1908–1909.

Dr.	RS.	A.	P.	*Cr.*	RS.	A.	P.
To working expenses (hired bulls) ..	203	4	1	By balance written off	9,208	8	11
,, depreciation at 6 per cent.	2,122	5	1				
,, interest at 4 per cent.	1,425	9	7				
,, repairs to tram line	221	7	0				
,, cost of feed and keep of bulls employed in tramming.	5,022	10	7				
,, pay of permanent way Inspector ..	213	4	7				
Total ..	9,208	8	11	Total ..	9,208	8	11

Profit and loss statement.

Work done.

	TON-MILES.
$578\frac{6}{40}$ tons (23,126 c.ft.) of timber moved over from Peruvarai to top-slip, $5\frac{3}{4}$ miles	3,324
$408\frac{31}{40}$,, (16,351 ,,) of timber moved over from Peruvarai to workshop, $3\frac{3}{4}$ miles	1,533
$251\frac{1}{2}$,, (10,060 ,,) of timber moved over from workshop to top-slip, $3\frac{3}{4}$ miles	943
3,816 spokes and 1,836 fellœs (896 c.ft.) from Sungam to top slip, 5 miles	112
Total ..	5,912

	RS.	A.	P.	RS.	A.	P.
Actual charges for carrying 5,912 ton-miles at Rs. 1–8–11 per ton-mile.	..			9,208	8	11
Estimated cost by carts 5,912 ton-miles at Re. 1–0–8 per ton-mile ..	6,158	5	4			
Actual cost of maintaining cart-road before the construction of tramway (now saved)	1,200	0	0			
Cost of extension of road beyond Sungam (now saved)	310	0	0			
				7,668	5	4
Loss ..				1,540	3	7

Capital Account, 1909–1910.

Dr.	RS.	A.	P.	*Cr.*	RS.	A.	P.
To balance brought forward	33,517	9	0	By depreciation at 6 per cent.	2,146	11	4
,, repairs to tram trucks	32	0	0	,, balance stock	33,631	11	10
,, cost of diversion of tram line near Perniarikulam.	186	6	0				
,, cost of spare materials purchased ..	277	2	6				
,, cost of Bogie wheels, axles, etc. ..	1,465	13	8				
,, construction of branch tram line from Puliadi to compartment XVI.	299	8	0				
Total ..	35,778	7	2	Total ..	35,778	7	2

Revenue Account, 1909–1910.

Dr.	RS.	A.	P.	*Cr.*	RS.	A.	P.
To working expenses (hired bulls) ..	316	3	3	By balance written off	6,739	9	1
,, depreciation at 6 per cent.	2,146	11	4				
,, repairs to tram line	106	0	6				
,, cost of feed and keep of bulls employed in tramming.	2,415	7	9				
,, pay of permanent way Inspector ..	324	0	0				
,, interest at 4 per cent.	1,431	2	3				
Total ..	6,739	9	1	Total ..	6,739	9	1

Profit and loss statement.

Work done.

	TON-MILES.
$367\frac{11}{20}$ tons (14,702 c.ft.) of timber moved over from Peruvarai to top slip, $5\frac{3}{4}$ miles	2,113
$155\frac{13}{40}$,, (6,213 ,,) of timber moved over from Puliadi to top-slip, 4 miles	621
$17\frac{1}{2}$,, (700 ,,) of timber moved over from workshop to top slip, $3\frac{3}{4}$ miles	66
$76\frac{1}{20}$,, (3,042 ,,) of timber moved over from Sungam to top slip, 5 miles	380
$120\frac{3}{5}$,, (4,824 ,,) of timber moved over from compartment XVI to top slip, 4 miles ..	482
872 felloes and 1,796 spokes (635 c.ft.) of timber moved over from Anaipadi to top slip 4 miles..	63
140 trucks carrying saw mill materials from workshop.	
54 Do. do. rails received from England from top slip to Puliadi	
Total ..	3,725

	RS. A. P.	RS. A. P.
Actual charges for carrying 3,725 ton-miles and 194 trucks of materials ..		6,739 9 1
Estimated cost by carts for 3,725 ton-miles at Rs. 1-0-8 per ton-mile	3,880 3 4	
Do. do. 194 trucks of materials, etc.	400 0 0	
Actual cost of maintaining cart-road before the construction of tramway (now saved)	1,200 0 0	
Cost of extension of road beyond Sungam (now saved)	310 0 0	
		5,790 3 4
Loss ..		949 5 9

	Loss. RS. A. P.
1890-1891	3,048 9 5
1891-1892	4,710 13 9
1892-1893	4,718 4 5
1893-1894	2,392 3 5
1894-1895	1,742 12 11
1895-1896	1,236 3 1
1896-1897	777 9 8
1897-1898	64 0 6
1898-1899	2,608 3 6
1899-1900	629 11 3
1900-1901	1,713 12 0
1901-1902	1,850 6 10
1902-1903	2,114 3 7
1903-1904	206 15 11
1904-1905	98 1 6
1905-1906	92 0 7
1906-1907	226 15 5
1907-1908	650 4 0
1908-1909	1,540 3 7
1909-1910	949 5 9

N.B.—The rate paid for carting from Sungam to Venthamudi, a distance of 6 miles, prior to the construction of the tramway, was Rs. 2 per candy of $12\frac{1}{2}$ c.ft. This comes to As. 5-1 or slightly more than 5 pies per cubic foot per mile or Rs. 1-0-8 per ton-mile, a ton being taken as equivalent to 40 c.ft. Hence the estimated cost by carts has been calculated at the rate of Rs. 1-0-8 per ton-mile.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following paper :—

Proceedings of the Board of Revenue (Land Revenue), Forest No. 274, dated 23rd November 1910.

The Hon'ble Mr. W. O. HORNE.

The Board begs to submit to Government the progress report of Forest Administration in the Madras Presidency for the year ending with 30th June 1910.

CONSTITUTION OF STATE FORESTS.

2. *Alteration in area.*—During the year, the area of reserved forests rose from 18,694 square miles to 18,769 square miles, while that of reserved lands fell from 876 square miles to 843 square miles, the net result being an increase of 42 square miles in the total area of forests under the control of the Forest Department. This increase is nominal, being mostly due to the adoption of Survey of India figures in Kollegal and North Coimbatore, and to recomputation of areas in West Kurnool and Trichinopoly. The above figures do not include the 540 square miles of reserved forests in the Nugur taluk which were transferred during the year from the Central Provinces to the Upper Gódávari Division. This area was reserved under the Indian Forest Act, but the effect of Regulation I of 1909 is to withdraw the Indian Forest Act from the transferred taluk. There is therefore no legal authority for treating the areas as reserves under the Madras Forest Act, and they must be reserved afresh under the latter Act. There are proposals to take up further areas for reservation in Kistna, Anantapur, Tanjore and Trichinopoly, and probably also on the slopes and plateau of the Kollimalais in the Námakkal taluk, but the proposals have not yet been thoroughly examined. The examination of areas in the Parlákimedi Maliahs in the Ganjám district, with a view to the restriction of podu cultivation and the formation of regular reserves in order to protect sources of water-supply, is being carried out by the Special Officer appointed for the purpose. In the Parlákimedi Maliahs proper, two blocks of eight square miles have been demarcated and notified as reserved lands, and they have also been surveyed roughly. In the Chandragiri Agency, where the forests on the plateau above the ghats, together with the slopes below, form one natural block, the main boundary has been laid down and the lands of the villages forming enclosures, except one, have been demarcated. The Special Officer appointed to carry out forest settlement in Chokkapad could not take up the work until the forests had been surveyed. The selection and demarcation of these forests was completed by the end of the year, but the survey cannot be undertaken till the rains are over.

3. *Forest settlement.*—As in the previous year, the work was carried out by the Revenue Divisional Officers. Only ten square miles were finally notified under section 16 of the Forest Act during the year. It will be seen from Appendix C that out of 529 square miles notified under section 4 of the Forest Act, forests covering 23 square miles were reserved under section 16 after the close of the year, and the settlement of 469 square miles had been practically completed, leaving 37 square miles still to be settled. It has been found that the original settlement of some of the reserves in Madura and Coimbatore is inaccurate and defective, and a Special Deputy Collector has been appointed in each of these districts to examine the boundaries and enclosures and submit revised notifications.

4. *Demarcation.*—The total length of boundaries at the close of the year 1909–1910 was 37,654 miles (or 27 miles greater than in 1908–1909), of which 1,775 miles do not require artificial marks. 644 miles were newly demarcated during the year against 320 miles in the preceding year. The length of boundaries which remained to be demarcated at the end of the year 1909–1910 was 1,020 miles against 571 miles in the preceding year. The increase appears to be due to the fact that in Madura the demarcation of about 600 miles imperfectly demarcated in previous years was taken in hand again. The average cost of new demarcation fell from Rs. 49–13–6 to 23–12–2 per mile. The cost decreased in all the three circles. The total length of boundaries repaired was 1,661 miles greater than in the previous year, but the work is still behindhand in Kistna, East Kurnool, West Kurnool, Bellary, Anantapur, South Arcot, Guntur, South Canara, North Malabar, the Nilgiris, and North and Central Coimbatore. In reviewing the Circle reports, the Board has impressed upon Collectors the importance of maintaining the boundaries of reserved forests in good order.

5. *Surveys.*—The Survey of India Parties Nos. 7 and 8 surveyed an area of 147 square miles of forests on the 2″ scale in the districts of South Canara, the Nilgiris and Central Coimbatore. As this survey forms part of their regular programme, its cost will be borne by the Survey of India. No work was done by either of these Parties in the Northern or Central Circles. No departmental surveys of importance were made in any of the three cirles. The departmental surveyors were as usual employed on miscellaneous work such as mapping reserves and coupes, tracing roads, surveying fire lines, etc. Out of 18,769 square miles of reserved forests, 17,471 square miles are shown as having been finally mapped, but in many cases in the Southern Circle, settlement maps appear to have been treated as final maps. The Conservator has called for detailed information on the subject.

MANAGEMENT OF FORESTS—(1) REGULATION OF MANAGEMENT.

6. *Working-plans.*—Working-plans for an area of 847 square miles (all in the Central Circle) were sanctioned during the year, bringing the total area for which regular working plans have been prepared up to 7,893 square miles, out of a total forest area of 19,612 square miles. Plans for 1,849 square miles in the Central Circle, 1,007 square miles in the Northern Circle and 13 square miles in the Southern Circle were under preparation. The Board has already observed in reviewing the Circle reports that the slow progress in preparing plans is regrettable but also inevitable owing to the undermanned condition of the department. The proper preparation of a working-plan demands a full-time officer, and when there are not enough officers even to man the District charges, there is no hope of deputing any for this important work. Plans have yet to be prepared for large areas in East Kurnool, East and South Cuddapah, Guntúr, the Nilgiris, Kollegal, North Coimbatore and South Coimbatore. The prescriptions of the working-plans were generally adhered to and the deviations from them are satisfactorily explained in the Circle reports.

(2) COMMUNICATIONS AND BUILDINGS.

7. The expenditure on new roads and paths was Rs. 52,902 against Rs. 42,630 in the preceding year. There was an increase in all the three Circles, mainly in the districts of Ganjám, East Kurnool, North Salem, South Coimbatore and Tinnevelly. It is satisfactory that the important subject of opening up the forests and thus rendering it possible to work areas otherwise inaccessible is receiving adequate attention. The amount spent on the maintenance of roads and paths was Rs. 33,903 against Rs. 39,232 in the preceding year.

8. Expenditure on the construction of new buildings rose from Rs. 94,661 to Rs. 1,20,893, which is also satisfactory. The districts of East Kurnool, North Salem, the Nilgiris and South Coimbatore contributed most to the increase. The expenditure on maintaining buildings rose by Rs. 2,661. The increase occurred in the Northern and Central Circles. The total expenditure on communications and buildings was 2½ lakhs out of a gross revenue of nearly 42 lakhs. More money could profitably be spent under these heads if the establishment were strengthened. It is possible to do a certain amount by means of temporary establishment, but the agency is less reliable and the work less satisfactory than it would be

if permanent hands were available. The Mono-rail in Lower Godávari did not work during the year, as the contractor for the Bandamurlanka plantation used other means of conveyance. The Nellore tramway worked at a profit and that in South Coimbatore at a loss. The latter, however, enabled work to be done which would have been impossible without it, and, taking into consideration the money which would in its absence have been spent on roads, etc., it is not really an unprofitable investment. Plans and estimates called for by Government for the construction of a tramway in Wynaad have not been submitted. It has been proposed instead to buy a road train and to run it on the existing roads. This scheme is under investigation.

9. *Miscellaneous works.*—The expenditure under this head was Rs. 17,324 or Rs. 7,261 more than in the preceding year. The works done included wells, fences, and walls for reserves and depots, the clearing of compounds, repairs to water channels and the improvement of river-beds.

(3) Protection of Forests.

10. *General protection.*—The offences detected during the year are classified in the following table :—

—	Injury to forests by fire.		Unauthorized felling and removal of forest produce.		Unauthorized grazing.		Other offences.		Total.		Average of 1906–1907 to 1908–1909.
	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	1908–1909.	1909–1910.	
1. Cases taken into Court	77	67	3,434	3,009	1,697	1,444	353	341	5,561	4,861	5,439
2. Cases compounded.	37	39	10,790	11,556	6,443	6,630	784	615	18,054	18,840	17,331
3. Cases undetected ..	491	842	582	287	734	423	48	24	1,855	1,576	1,585
Total ..	605	948	14,806	14,852	8,874	8,497	1,185	980	25,470	25,277	24,355

It will be seen that the total number of offences reported is 193 less than the figure for the preceding year, and 922 more than the average for the preceding three years. It is certain that the number of offences (especially grazing offences) reported bears little relation to the number actually committed; comment on these figures is therefore of little profit. Moreover, it is reported that in some districts, offences relating to unreserved lands which were dealt with by the Revenue Divisional Officers were not included in the returns. 61 per cent. of the total number of reported cases occurred in the Central Circle, where also the largest number of offences was reported under the head "Injury to forests by fire". As usual, offenders responsible for the majority of the forest fires were not detected. Detection was extremely poor in Lower Gódávari, East Cuddapah, North Arcot, South Salem, South Canara and Tinnevelly. The number of cases disposed of by the Courts was 4,571 against 5,294 in the preceding year. Convictions were obtained in 3,995 cases or 87 per cent. The percentage of cases in which the offenders were convicted was the same as in the previous year. The number of cases compounded was 17,251 against 16,627 in the previous year. The average compounding fee during the year was Rs. 8–15–9 against Rs. 9–14–3 in the previous year. Government have ordered that, as a rule, important cases should not be compounded. The Board trusts that the District Forest Officers will strictly observe this principle. It may be observed that offences cannot be prevented unless the Courts inflict deterrent punishments on the offenders, which is by no means always the case. In a case in South Salem relating to the illicit grazing of 324 goats and 246 sheep in a reserved forest, the Head quarter Deputy Magistrate imposed fines of Rs. 500 on one of the accused and Rs. 50 on the other which sentence was upheld on appeal by the Sessions Judge. Unfortunately the High Court to whom the first accused presented a revision petition reduced the fine to Rs. 250, which is only a fraction of the maximum compounding fees leviable under the rules prescribed in Government Order, No. 1990, Revenue, dated 13th June 1910. The Board thinks it worth considering whether rewards might not,

with advantage, be granted regularly to forest subordinates for the detection of offences as they are to Abkari Officers. The forest guard has much to gain by conniving at breaches of the Forest law, and little to gain by doing his duty.

11. *Protection from fire.*—Except in Cuddapah, the methods employed to protect the forests from fire were the same as were adopted in previous years, namely, the fire tracing of boundaries, the clearing of internal fire lines and the maintenance of fire patrols to keep the lines clear and to extinguish fires. In Cuddapah, the system of burning a large area of forest in strips of varying width in order to secure the protection of the remainder was continued, but there are very few areas to which this system is at all applicable. In parts of the Northern Circle, the protection of portions of the forests from fire was entrusted to hillmen who were paid by results. In the East and West Kurnool Divisions, the system of grubbing out stumps was continued. The total area of which "special protection" was attempted was 4,465 square miles against 4,079 square miles in the previous year. Of this area, 3,948 square miles were successfully protected against 3,841 square miles in the preceding year. The percentage of failure rose from 5·83 to 11·58, but the average cost per square mile successfully protected was nearly the same, viz., Rs. 21–8–1 against 21–12–0 in the preceding year. The results were less favourable than in 1907–1908 in all the three Circles, but cannot be regarded as unsatisfactory considering the extreme and unusual dryness of the season. In addition to the area under special protection, the ordinary staff attempted to protect 5,712 square miles, of which 5,306 square miles are shown as successfully protected. The Board is not, however, disposed to regard these latter figures as reliable.

12. The number of fires during the year, as given in the Conservators' reports and arranged according to their causes, are compared below with the figures for the previous year :—

—	1908-1909.		1909-1910.	
	Number.	Acres.	Number.	Acres.
Fires originating in departmental fire conservancy operations ..	84	5,562	87	27,049
Fires crossing the exterior fire lines	71	11,209	167	190,285
Fires due to carelessness or accident	213	23,913	355	45,733
Fires originating from intention or malice	151	31,609	352	243,114
Fires due to unknown causes	255	50,787	694	412,293
Total ..	774	123,080	1,655	918,474

The number of fires and the area burnt were both much larger than in the previous year, the inevitable result of the general failure of the late rains. The number of fires due to intention or malice and to unknown causes increased in all the three circles. During his tour in Kurnool, the Forest Commissioner ascertained that it is common to fire the forests in order to turn out game or to reduce cover for shikar purposes. Where this is done and where it is known that areas were burnt to obtain new grass, the closure of the areas concerned to grazing should act as a deterrent and if, promptly enforced, no doubt does so. The Chenchus were still responsible for many deliberate fires in the Nallamalais. It will take a long time to wean these very backward people from their evil practices, but visible progress is being made in civilizing them and the present policy of the department towards them must be persevered in. Mr. H. F. A. Wood did most commendable work in this direction

13. *Protection from cattle.*—Out of a total forest area of 19,612 square miles, 2,388 square miles were closed to grazing to all animals throughout the year; only 789 square miles were open to goats. As in the previous year, goats were admitted to reserves only in Kistna, Bellary, Cuddapah, Nellore, North Arcot, North Salem, Guntur and Madura. The total number of animals admitted to grazing on payment was 40,40,692 or 34,000 less than the number reported in 1908–1909. The number of bulls, cows and sheep decreased, but that of buffaloes and goats increased. The increase in the number of goats was large and occurred in all the three Circles. This is regrettable. The Collectors have been reminded that the principles governing the admission of goats to reserves are those laid down in Government Order

No. 1863, dated 25th July 1907, namely, that as much should be done for goats as is possible consistently with other interests, and that they should only be admitted into reserves where the unreserved area is not sufficient to provide browsing for a number of goats which is reasonable, in view of all the circumstances of the locality, and which is not intended to include unlimited herds belonging to professional goat-breeders and that even then goats should only be admitted to such reserves as are not specially required for the supply of timber and fuel or for the grazing of other animals. They have been instructed that, wherever there is reason to apprehend any serious results from overbrowsing, proposals should be made to obviate them before it is too late. At present, there is no restriction on the number of cattle admitted into any forest open to grazing. A preliminary scheme for distributing the grazing in Udamalpet taluk of the Coimbatore district is under consideration. Definite instructions have now been issued with a view to the limitation of the number of cattle to be admitted to graze in each grazing block, with reference to the "possibility" of the block, and it is hoped that in the course of a few years, it may be possible actually to introduce such limitation. The number of cattle impounded was 212,861 against 213,802 in the previous year. 58 per cent. of this number was impounded in the Central Circle.

14. *Protection from injury against natural causes.*—As in previous years, the most serious pests from which the forests suffered were the spike disease in sandalwood forests in North Coimbatore and Kollegal, the fungus (*Trichosporium Vesiculosum*) in the casuarina plantations in Ganjám and Lower Gódávari, the insects *Pyrausta* and *Hyblœa* in some of the teak plantations in North and South Malabar, and caterpillars in Tinnevelly. It is satisfactory to learn that there was little trace of fungus disease in the casuarina plantations in Nellore. It is not stated whether the measures adopted in this district and elsewhere to eradicate the fungus (*Trichosporium*) were applied in the Agastinowgam plantation in Ganjám where continued damage is reported. The Conservator's attention has been drawn to the matter. The cause of the spike disease of sandal has not yet been discovered. The Board observes that its investigation is one of the subjects included in the programme of work to be carried out by the Imperial Forest Research Institute during the three years commencing with 1909–1910.

(4) Sylviculture.

15. *Natural reproduction.*—The short rainfall hampered reproduction in some districts, but on the whole reproduction was fair from seed and good from coppice. The results were of course best in localities protected from fire and closed to grazing. Little or nothing was done to encourage teak regeneration in North Malabar, owing to changes of District Forest Officers and to one District Forest Officer having charge of both the divisions. It is satisfactory to learn that even rocky parts of some fenced reserves in Bellary are fast being covered, though only with a scrubby growth.

16. *Artificial reproduction.*—1,676 acres (including areas under *taungya* operations) were added to the plantations and 686 acres excluded leaving a net increase of 990 acres during the year. The total expenditure on the creation and maintenance of the plantations including the *taungya* areas up to the end of the year was Rs. 21,43,123, while the revenue realised by the department from them was Rs. 25,05,547. The above figures do not include those for Tanjore which are said not to be known. Cultural operations were undertaken chiefly for the purpose of regenerating felled coupes and poorly-stocked areas and in some districts for the supply of manure leaves. Such operations were conducted, on a large scale in Bellary, Anantapur and Chingleput, but the results were not satisfactory owing to the failure of the rains. It is gratifying to learn that in North Coimbatore 5,187 acres were sown with sandal, rosewood and vengai seeds, free of cost by the subordinates and by the students of the Tamil Vernacular Training school. Out of Rs. 43,915 spent during the year under this head, Rs. 34,678 was in the Northern Circle. The Board has already expressed its opinion that it is a mistake to encourage the demand for manure leaves or to hold out any hope that the Forest Department can meet it, since neither the regular forests nor any specially cultivated area can possibly supply the quantity required by the ryots, who, moreover, make no attempt to cultivate it for themselves.

17. *Operations for the improvement of the growing stock.*—The chief operations undertaken for the improvement of growing stock were as usual improvement fellings, thinnings, weedings, cleanings, prunings, creeper cuttings, fencing and the removal of parasites and noxious growth. The report from the Southern Circle in most cases gives the extent covered by each of these operations and their cost, but such details have not been given for the other circles. These operations, if carefully and systematically conducted, must be most beneficial and every effort should be made to extend them. The bunding of streams in order to retain the silt and keep the soil in the neighbourhood moist was successful in some localities in the Northern Circle.

18. *Experiments.*—Experiments on "species" were continued but except in regard to *Swietenia Mahogani* in Nellore, South Canara, South Malabar, North and South Arcot (Tiruvannámalai Range), *Swietenia Macrophylla* in South Malabar, camphor in the Nilgiris and Madura, bamboos in the West Coast districts, Eucalyptus in North Salem and Red sanders, Divi divi and Sisso in the Conservator's compound at Waltair, the results were not encouraging. Nine varieties of timber-yielding Eucalyptus, which have been propagated from seed specially obtained from Australia, are being experimentally planted out at different elevations in the Nilgiris. Experiments were made in all the districts in the Northern Circle and some districts in the Southern Circle to test the effect of fires on the growth of grass, but without any definite results. The Forest Commissioner has seen some of these experiments. His own opinion is that with the limited supervision which the present staff is able to give to them, they cannot produce any results which can be depended on, and merely waste time and energy which might be better employed. No one who has been much in the jungle can doubt that burning does, for practical purposes, improve grazing for the time being by removing the coarse grass, thus making room for a plentiful fresh growth of tender grass which all beasts prefer. The best judges are the game, the cattle and the graziers, all of whom have only one opinion. But it is not to be forgotten that the primary object for which a large proportion of the reserves is maintained is to produce not grass but timber and fuel, and it is hardly necessary to insist that burning does not improve the two latter.

(5) Exploitation.

(*a*) *System of management.*

19. *Major produce.*—As in previous years, the methods adopted for the exploitation of major produce were clear or regeneration fellings, selection fellings improvement and coppice fellings. In some districts in the Northern Circle, regular thinnings were undertaken. The issue of permits was only continued in the following cases. In East Cuddapah, permits were granted for the removal of bamboos as no contractors could be found. Apparently for the same reason, permits were issued in North Cuddapah for the working of bamboos in the Palakondas and of charcoal in areas not under any working plan. Bamboos were also removed on permits in South Salem. The removal of timber was allowed on permits in places in North and South Cuddapah where the demand was small. In the Nilgiris, permits were issued for inferior timber, fuel and bamboos for local consumption. In Kollegal, North Coimbatore and Central Coimbatore, small timber and bamboos, brushwood and twigs were removed from felled coupes under permits.

20. *Minor produce and fodder grass.*—Minor produce was leased out to contractors in almost all districts. In the Sandur range of Bellary, East and West Kurnool and a portion of the Nellore district, it was collected departmentally, and in a few other districts some kinds of miscellaneous produce were so collected. Permits were issued in several districts for such classes of produce as stone, gravel, leaf manure, and thatching grass. In West Kurnool, Bellary, North, South and East Cuddapah, North Arcot and South Canara, the free removal of grass from the reserves was permitted. Except for East Cuddapah where it is reported that 10,000 tons were removed, the quantity removed is not stated in the Circle reports, nor is it possible to state it, but Collectors are requested to see that as far as possible full particulars are given regarding free removal of grass in future reports as required by Board's Proceedings, Forest No. 157, dated 5th July 1910.

21. *Hay-making.*—Experiments were conducted in several districts, especially in the Central Circle, but there was little local demand for the hay made. It has since been decided that these experiments should be continued, in order to obtain data on which a larger scheme may ultimately be based if necessary, and that for the present financial considerations may be ignored. The Conservators have been requested to select at least one centre in each Circle for such an experiment and to submit proposals for conducting it and an estimate of its cost including the extra establishment required.

22. *Grazing.*—The revenue from grazing fell from Rs. 7,82,510 to 7,69,770. A decrease of Rs. 22,758 in the Central Circle was partly counterbalanced by increases of Rs. 5,184 in the Southern Circle and Rs. 4,834 in the Northern Circle. The decrease in the Central Circle is attributed generally to the unfavourable season and to the exclusion of goats from reserves in Nellore, after the introduction of the new grazing scheme.

(*b*) *Agency of exploitation.*

23. The following statement compares the total outturn of timber, fuel, bamboos and minor produce from all areas under the control of the Forest department with the outturn of the preceding year:—

Agency of exploitation.	Timber in cubic feet including sandal-wood in cubic feet.		Fuel in cubic feet.		Bamboos number.		Minor produce including grass.	
	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.	1908-1909.	1909-1910.
1	2	3	4	5	6	7	8	9
							RS.	RS.
By Government agency ..	614,419	917,164	12,085,902	13,953,682	6,111,168	6,349,626	54,460	69,363
By purchasers including confiscation (*a*).	2,517,668	2,499,073	8,787,553	7,382,834	25,756,150	32,931,353	14,82,008	15,95,416
By right holders	78,353	93,422	154,694	154,612	13,193	15,068	41,780	26 296
By free grantees	174,721	149,969	22,709	4,312	152,254	123,737	1,650	2,070
Total ..	33,85,161	36,59,628	21,050,858	21,495,440	32,032,765	39,419,784	15,79,898	16,93,145

(*a*) Figures showing the quantities of timber and other produce confiscated and sold in the Southern Circle during 1908–1909 and 1909–1910 have not been received from the Conservator of Forests, Southern Circle.

24. The total outturn of major and minor produce was larger than in the previous year. The outturn of timber from departmental working increased in all three circles, while that from removals by purchasers rose in the Central and fell in the other two Circles, the net result being a small decrease of 18,595 cubic feet. A larger quantity was extracted departmentally, mainly in the districts of Ganjám, Anantapur, Guntúr and South Coimbatore. The decrease in the quantity removed by purchasers is small and calls for no remark.

25. There was an increase in the quantity of fuel removed by Government Agency in the Northern and Central Circles, which was partly counterbalanced by a decrease in the Southern Circle. The increase was marked in the Central Circle owing chiefly to extended departmental operations in North Cuddapah and North and South Arcot. The quantity removed by purchasers fell in all the three circles, mainly in the districts of Ganjám, Vizagapatam, Nellore, North and South Arcot, Guntúr, South Coimbatore and Tinnevelly. The decrease would have been still greater but for the considerable increase in Kistna and South Canara.

26. The number of bamboos extracted by the department and the number removed by purchasers largely exceeded the previous year's figures. To the increase in the quantity removed by purchasers, the districts of Lower Gódávari, North Salem, and Central Coimbatore contributed most.

27. The value of the outturn of minor produce, including grass and grazing, rose by over $1\frac{1}{8}$ of a lakh. It increased in all the three circles and chiefly in Gódávari Upper, Bellary, South and East Cuddapah, North Arcot, South Salem and Kollegal. The Circle reports show that no material progress has been made in replacing the departmental working of timber and fuel coupes by the contract system. It is found very difficult to get satisfactory contractors, especially in the Central Circle, and progress

in this direction must necessarily be slow. The Board has impressed upon the Conservator of Forests, Central Circle, the need for making greater efforts to give effect to the policy laid down by Government. Steps were taken in the Northern and Central Circles to dispose of the forest produce at the edge of the forests. In the Southern Circle, no such steps were taken, the reason given being that the system involves higher carting expenses and would raise the price of fuel to the consumer. The Board does not consider the reason convincing and has informed the Conservator that the attempt should not be abandoned. Arrangements are being made, wherever possible, to transfer departmental sale depots to private agency. The estimated value of the produce removed by right-holders was Rs. 66,039 against Rs. 78,888 in the previous year, and of the produce granted free Rs. 20,157 against Rs. 26,541 in the preceding year.

Financial Results.

28. The revenue and expenditure of the year are compared below with those of the previous year, and with the average of the preceding five years.

Circle.	Revenue.	Expenditure.			Surplus.
		A. Conservancy and works.	B. Establishment.	Total.	
	RS.	RS.	RS.	RS.	RS.
Northern Circle	11,23,985	7,38,291	4,37,459	11,75,750	— 51,765
Central Circle	19,18,620	7,33,010	4,46,916	11,79,926	+ 7,38,694
Southern Circle	11,41,598	6,30,631	3,98,620	10,29,251	+ 1,12,347
Total 1909-1910 ..	41,84,203	21,01,932	12,82,995	33,84,927	+ 7,99,276
Total 1908-1909 ..	38,86,296	17,89,252	11,96,106	29,85,358	+ 9,00,938
Average for the five years preceding 1908–1909.	31,73,353	13,65,396	9,55,331	23,20,727	+ 8,52,626

Compared with that of the previous year, the gross revenue rose by Rs. 2,97,907 and the expenditure by Rs. 3,99,569, the net result being that the surplus decreased by Rs. 1,01,662. This is hardly matter for regret. In the present state of development of the Madras forests, the Board considers that a larger share of the gross revenue might with advantage be put back into them.

29. All the three circles contributed to the increase under gross receipts—Northern Circle (Rs. 75,197), Central Circle (Rs. 1,96,723), Southern Circle (Rs. 25,287). The increase in the Northern Circle was due chiefly to increased sales of fuel in depots in the majority of the districts, to leasing out bamboo coupes in Lower Gódávari, to the higher prices realised for tangedu bark leases in Bellary and the larger receipts from tree owners' fees in the same district. The increased revenue in the Central Circle was derived chiefly from fuel and sandal-wood, while that in the Southern Circle was due to the higher prices realised by the sale of trees on tank-beds in Madura and fuel coupes in Tinnevelly and for fuel sold to the mills and the public in Madura.

30. The expenditure under A. Conservancy and Works increased in all the three circles. In the Northern Circle, the increase was chiefly due to extensive departmental operations in almost all the districts, to extended cultural operations in West Kurnool and Bellary and to the construction of much needed buildings in the Nallamalais. In the Central Circle, extensive departmental fuel operations in nearly all the districts, the construction of rest-houses and subordinates' quarters in North Salem, and increased expenditure on planting in Guntúr and Nellore, chiefly contributed to the increase. The increase in the Southern Circle was due to the payment of compensation for lands acquired in the Attapadi valley in order to conserve important water sources. To the increase of Rs. 86,891 under establishments and contingencies, the Northern Circle contributed Rs. 37,712, the Central Rs. 15,550 and the Southern Rs. 33,629. The increase was due mainly to increments of pay granted to Imperial Service officers under the time scale system, to a small increase in the scale of temporary Deputy Rangers, Foresters and Forest Guards, sanctioned for special

works, and to the appointment of a Special Deputy Collector to investigate the boundaries of reserved forests in Madura. There was no increase in the permanent establishment except such as was required to man new districts or ranges. The outstanding revenue at the close of the year was Rs. 3,02,449-9-5 of which only Rs. 67,731-13-4 fell due within the year.

31. The following statement shows the financial results of the year after deducting capital expenditure not yielding an immediate outturn :—

		RS.	RS.
Gross revenue			41,84,203
Value of produce removed by right-holders and free grantees...			86,196
	Total ...		42,70,399
Gross expenditure			33,84,927
Deduct expenditure not yielding an immediate outturn—			
(i) Communications and Buildings		2,68,052	
(ii) Cultural operations		2,07,189	
(iii) Working-plans		1,971	
(iv) Settlement		1,14,036	
(v) Surveys		22,071	
(vi) Demarcation		32,594	
			6,45,913
Balance of direct revenue—producing expenditure			27,39,014
Surplus of revenue over expenditure directly chargeable to revenue			15,31,385

Administration.

32. The Hon'ble Mr. C. J. Weir, who was the Forest Commissioner from 1st July 1909 to 15th September 1909 and from 3rd November 1909 to 10th February 1910, visited North Arcot, Salem, Tinnevelly, Madura, Kurnool, Bellary and Anantapur. The Hon'ble Mr. R. B. Clegg, who was Forest Commissioner from the 16th September 1909 to 2nd November 1909, visited Cuddapah and Guntúr. The Hon'ble Mr. W. O. Horne, who has been Forest Commissioner since 11th February 1910, visited North Arcot, Coimbatore, Madura, Anantapur and West Kurnool during the year and inspected considerable areas of the forests in those districts.

33. Mr. Lushington held charge of the Northern and Mr. Lodge of the Southern Circle throughout the year. The Central Circle was in charge of Mr. C. E. Brasier until 23rd April 1910 and of Mr. Peake for the rest of the year. The Conservators visited all the divisions except Kollegal during the year and inspected all the District Forest offices. The accounts of all the District Forest offices except Ganjám, Kistna, North and East Cuddapah and Kollegal were audited by the Local Fund audit establishment of the Accountant-General's office and the results were reported to be satisfactory. Most of the District Forest Officers toured for more than the prescribed period of six months and they inspected nearly all the Range offices.

34. The Board has much pleasure in recording its appreciation of the good work done by the Conservators and by the officers of the superior staff. The keenness of all officers and their persevering work under great difficulties deserve high commendation. On the whole, the work and conduct of the subordinate executive and ministerial establishments was fairly satisfactory. The present arrangements for the training of the subordinate executive staff at Dehra Dun are unsatisfactory and render it impossible to keep up the supply of properly trained subordinates. This can never be done until local training is available and the Board earnestly hopes that the opening of the new college at Coimbatore will not be deferred further. The conduct of the subordinate protective staff continued to be unsatisfactory, but seeing that the staff is weak and insufficiently paid as well as inefficiently supervised, it is not possible to expect better results. No doubt the vernacular training schools will, to some extent, improve the efficiency of the staff, but at present the size of a forest guard's beat is

so great that it is impossible for him to protect it and he often succumbs to the temptation to make something out of irregularities which he knows will occur in spite of his best efforts. The relations between Revenue and Forest officials continued to be cordial.

35. The only territorial changes during the year were the transfer of the Nugur range from the Central Provinces to Upper Gódávari division, and the transfers of the Attapadi blocks 1 to 6 from South Malabar to Central Coimbatore and of the whole of the Nilgiri Eastern Slope reserved forest from North Coimbatore to the Nilgiris. The new Rámnád forest division has been formed, but no separate officer has yet been posted to it, and it is still under the control of the District Forest Officer, Tinnevelly. A third forest charge in Kurnool is about to be formed. The Conservator, Southern Circle, points out that it was impossible to keep the ranges properly manned owing to the large number of Rangers on sick leave and the absence of any reserve to replace them. This remark applies equally to the other two Circles. An increase both of the controlling and of the subordinate staff is the most crying need of the department. The work is increasing year by year and the establishment has long ago failed to keep pace with it. The present state of affairs makes proper work impossible. The Board is about to approach Government with a request for an increase.

General.

36. Timber transit rules were sanctioned for Kollegal and North Coimbatore during the year, and for the Kistna district after its close. In districts where transit rules were previously in force, they are reported to have worked satisfactorily. The ryots continued to enjoy their usual privileges under the rules under Section 26 of the Forest Act, and no instances of serious abuse were brought to notice.

37. The demands of the ryots for timber, fuel and agricultural implements were met by departmental sale depots which were mostly in towns or villages. Steps were being taken in the Northern and Central Circles to open such depots at the edge of the forests. The depots in Madras were highly popular. The measures adopted in Ganjám, Gódávari and Trichinopoly to secure the co-operation of the hill men in the protection of the forests were largely successful. As already stated, the Chenchus were again responsible for fires on the Nallamalais, but the progress of the measures taken to civilise them is nevertheless remarkable.

38. Owing to a depression in the mica industry in Nellore, only two mines worked continuously during the year and consequently there was a fall in the revenue from that source. A mining lease for manganese was granted in Bellary over a portion of the Tumbaragadde reserve, and a prospecting license over a portion of Alagilavada reserve previously granted in the same district was renewed during the year. In West Kurnool, licenses were granted to prospect for diamonds, and in Anantapur a gold mining lease covering an area of 1 square mile was issued. A mineral known as "samarskite" which is considered to be exceedingly valuable owing to its radio-active properties is stated to have been discovered in the Sankara mine in Nellore.

39. The condition of the elephants in charge of the department is satisfactory. The Commissioner inspected a large number of them and found no cause for complaint.

(True Extract.)

A. R. Loftus-Tottenham,
Secretary.

To the Secretary to Government, Revenue Department.

Order—No. 130, Revenue, dated 16th January 1911.

Forest No. 4.

Recorded.

2. Five hundred and forty square miles of forests in the Nugur taluk were transferred from the Central Provinces to this Presidency in the year under review. This area was originally reserved under the Indian Forest Act (VII of 1878), which,

under Regulation I of 1909, has ceased to be in force in the taluk transferred. The Board has accordingly recommended that the forests should be resettled under the Madras Forest Act (V of 1882) and has submitted proposals, which are under the consideration of Government, for their proper control and management. Proposals for the conservancy of the Chokkapad and Chandragiri forests in the Ganjám Agency were sanctioned during the year. The boundaries of certain reserves in the Madura district and in the Bhaváni, Satyamangalam and Kollegal taluks of the Coimbatore district were reported not to be in agreement with the notified descriptions of them and the Government have appointed a Special Deputy Collector for each of these districts to revise the boundaries.

3. In G.O., No. 730, Revenue, dated 8th March 1910, the Board of Revenue was requested to pay special attention to the question of extending the system of disposing of produce at the edge of the forests. The Government are glad to observe that steps are being taken to carry out this policy in the Northern and Central Circles. They agree with the Board of Revenue that the reason given for the failure to do so in the Southern Circle, viz., that the system involves higher carting expenses and raises the price of fuel to the consumer, cannot be accepted as convincing and trust that more satisfactory results will be obtained in all circles during the current year.

4. In G.O., No. 2890, Revenue, dated 17th October 1908, the Government declared that the general policy to be followed in working fuel depots is that the Forest Department should dispose of its produce as near the forests as possible and should leave the working of the sale depots to private agency and stated that the departmental working of coupes cannot, in their opinion, be dispensed with until properly trained contractors are available. The Board has since been informed that these orders apply rather to the transfer to private agency of the distribution of forest produce than to the transfer to such agency of felling, which the Government recognise must, for the present, be carried on departmentally. The present report shows that endeavours have been made to introduce the contract system as regards distribution but that the progress so far made has been small. The Government must again impress upon all Forest officers their desire that all possible steps should be taken to transfer the work of distribution of forest produce to private agency.

5. The Government have, during the year, received complaints, which enquiry has shown were not without foundation, regarding the insufficient stock of fuel maintained in certain sale depots. The Government consider the maintenance in the depots of a stock of firewood sufficient to meet all reasonable requirements a very important function of the Forest Department. The Board is requested to issue instructions which will ensure that the matter receives adequate attention at the hands of Forest officers.

6. The Government are glad to observe that attention has been given in the Central and Southern Circles to the important question of introducing the system of limiting grazing, and hope that the Board will shortly be in a position to formulate a definite scheme with this object.

7. During the year under review, rules for the guidance of Forest officers in compounding forest offences were prescribed. The manner in which these rules work in practice should be dealt with in future Administration reports.

8. The Government observe that the Board is inclined to think that rewards might, with advantage, be granted regularly to Forest subordinates for the detection of offences. The Board is requested to state its views on this question in detail for the consideration of Government.

9. The minimum pay of clerks in all Conservators' and District Forest Offices was raised to Rs. 20 during the year under review. An additional forest charge in the Kurnool district and a forest charge for the Ramnad district have been constituted since the close of the year.

10. The Government note with pleasure the testimony borne by the Board of Revenue to the good work done by the Conservators and the superior controlling staff of the department, and are glad to learn that the work and conduct of the subordinate executive and ministerial establishments were fairly satisfactory. As

observed by the Board of Revenue the strength of the department is inadequate for the proper performance of all the work it is called upon to perform, and the preparation of working plans, sylvicultural operations and the development of roads and communications are in consequence retarded, while forest beats and ranges are too large to be efficiently protected. If the proposals made by this Government for strengthening the controlling staff of the Forest Department in this Presidency are accepted by the Secretary of State to whom they have been submitted, much-needed relief will be given to the superior officers of the department and the Forest College at Coimbatore can be brought into existence without further delay. The Board's proposals for strengthening the subordinate staff are awaited.

11. The Government are glad to observe that ten districts were visited by the Commissioner of Forests during the year.

(True Extract.)

L. M. Wynch,
Ag. Secretary to Government.

To the Board of Revenue, Land Revenue (Forests).
" Accountant-General.
" Government of India, Department of Revenue and Agriculture (with C.L.).
Editors' Table.

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